

STATE SCHEDULE OF RATES FOR 2023-24 W.E.F. Dt. 20/06/2023

महाराष्ट्र जीवन प्राधिकरण

मुख्य अभियंता, पुणे प्रादेशिक विभाग,पुणे नवीन प्रशासकीय इमारत, पुणे लष्कर पा.पु. केंद्र आवार, ४६३ स्टेव्हली रोड, सेंट मेरी चर्च शेजारी, कॅंप, पुणे-४११००१ दूरध्वनी : कार्यालयीन ०२०- २९७०६०६४/२९७०६०६८



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जा.क्र.: मु.अ.(पुणे)/तांशा-३/दरसूची २०२३-२४/९५८०

दि. २७/०६/२०२३

परिपत्रक

विषय :- मजीप्राची राज्यस्तरीय दरसूची सन २०२३-२४ दि. २०/०६/२०२३ पासून लागू करणेबाबत

- संदर्भ :-१) अधीक्षक अभियंता (मु),मजीप्रा मुंबई यांचे पत्र क्र. मजीप्रा/सस/तांशा३/५३८ दि. १९/०४/२०२३ २) मा. सदस्य सचिव, मजीप्रा मुंबई यांची कार्यालयीन टिप्पणी दि.१४/०६/२०२३ अन्वये दिलेले
 - निर्देश.
 - ३) अधीक्षक अभियंता (मु),मजीप्रा मुंबई यांचे पत्र क्र. मजीप्रा/सस/तांशा३/७३८ दि. १९/०६/२०२३

महाराष्ट्र जीवन प्राधिकरणाची सन २०२३-२४ ची राज्यस्तरीय दरसूची तयार करण्याचे मा. सदस्य सचिव मजीप्रा मुंबई यांनी निर्देश दिले आहेत. त्याअनुषंगाने दरसूची समितीने दरसूचीतील दराबाबतचा प्रस्ताव मा. सदस्य सचिव मजीप्रा मुंबई यांना धारिकेद्वारे सादर करण्यात आला. सदर धारिका, प्रस्ताव मंजूर करुन मा. सदस्य सचिव मजीप्रा मुंबई यांनी सन २०२३-२४ साठीची दरसूची दि. २०/०६/२०२३ पासून लागू करण्याचे निर्देश दिले आहेत.

सदर निर्देशाच्या अनुषंगाने मजीप्राची राज्यस्तरीय दरसूची सन २०२३-२४ दि. २०/०६/२०२३ पासून या परिपत्रकाद्वारे लागू करण्यात येत आहे. सदर दरसूची मजीप्राच्या <u>https://mip.maharashtra.gov.in</u> या बेबसाईटवर उपलब्ध करण्यात येत आहे.

کسرورک (TI.HI.TIEID)

अध्यक्ष, दरसूची समिती तथा मुख्य अभियंता

प्रत : मा. सदस्य सचिव, मजीप्रा मुंबई यांना माहितीसाठी सविनय सादर.

सोबत : राज्यस्तरीय दरसूची सन २०२३-२४ ईमेल द्वारे

प्रत : मुख्य अभियंता, मजीप्रा प्रादेशिक विभाग, ठाणे, नाशिक, अमरावती, नागपूर, औरंगाबाद यांना माहितीस्तव सस्नेह

अग्रेषित. सोबत : राज्यस्तरीय दरसूची सन २०२३-२४ ईमेल द्वारे प्रत : मुख्य कार्यकारी अधिकारी, जि. प. पुणे/सातारा/सांगली/सोलापूर/कोल्हापूर माहितीसाठी सस्नेह अग्रेषित. प्रत : आयुक्त महानगरपालिका पुणे/सातारा/सांगली/सोलापूर/कोल्हापूर यांना माहितीसाठी सस्नेह अग्रेषित. प्रत : अधीक्षक अभियंता, महाराष्ट्र जीवन प्राधिकरण विभाग सांगली/पुणे यांना माहिती व कार्यवाहीसाठी. प्रत : कार्यकारी अभियंता मजीप्रा मंडळ, पुणे १,२ सातारा/कराड/सांगली/सोलापूर/कोल्हापूर यांना माहितीसाठी. प्रत : कार्यकारी अभियंता मजीप्रा मंडळ, पुणे १,२ सातारा/कराड/सांगली/सोलापूर/कोल्हापूर यांना माहितीसाठी. प्रत : कार्यकारी अभियंता, ग्रा.पा.पू.विभाग जि.प पुणे/सातारा/सांगली/सोलापूर/कोल्हापूर यांना माहितीसाठी. प्रत : उप अभियंता, अद्यावत तंत्रज्ञान कक्ष, मजीप्रा मुंबई यांना माहितीसाठी व मजीप्राच्या संकेतस्थळावर Upload करण्यासाठी. सोबत : राज्यस्तरीय दरसूची सन २०२३-२४ ईमेल द्वारे.

MAHARASHTRA JEEVAN PRADHIKARAN



STATE SCHEDULE OF RATES

YEAR 2023 - 24

(As per Approval given by Hon. Member Secreteary, Maharashtra Jeevan Pradhikaran Mumbai, vide office note on 14/06/2023)

w.e.f Dt. 20 / 06 / 2023



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LIST OF HILLY AREA

MJP SSR 2023



शासन निर्णय, ग्राम विकास विभाग क्र.

ग्रापापु १०९०/सीआर-१६३/३९-अ, दि. ७ डिसेंबर १९९०

चे सहपत्र

परिशिष्ट - १

राज्यातील डोंगरी विभागाचे क्षेत्र दर्शविणारे विवरणपत्र

जिल्हा	तालुका	ज्या डोंगरी भागात	पूर्ण गट ज्या	उपगट ज्या	शेरा
	3	आहे त्या डोंगराचे	तालुक्यात ५०	तालुक्यात २०	
		नाव	टक्के पेक्षा जास्त	टक्के पेक्षा जास्त	
			क्षेत्र आहे तो पूर्ण	व ५० टक्के पेक्षा	AX
			गट	कमी आहे तो उप	OV'
				गट	
					, V
9	ર	3	8	ч	Ę
१ ठाणे वसई	१. मोखाडा	सहयाद्री पर्वत रांगा	पूर्ण गट (१))
				1 1 2	
	२. वाडा	पश्चिम घाट	पूर्ण गट (२)	∇V	
	३. शहापूर	पश्चिम घाट	पूर्ण गट (३)		
	४. मुरबाड	पश्चिम घाट	पूर्ण गट (४)	\sim	
	५. जव्हार	पश्चिम घाट	पूर्ण गट (५)	¢	
	६. वसई	पश्चिम घाट	$\sim V$	उपगट (१)	पूर्व भाग
	७. भिवंडी	पश्चिम घाट		उपगट (२)	उत्तर पश्चिम भाग
२. रायगड	८. कर्जत	पश्चिम घाट	पूर्ण गट (६)		
	९. खालापूर	पश्चिम घाट	पूर्ण गट (७)		
	१०. सुधागड	पश्चिम घाट	पूर्ण गट (८)		
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12	१८. पनवेल	पश्चिम घाट		उपगट (३)	दक्षिण भाग
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	२४. मंडणगड	पश्चिम घाट	-	उपगट (४)	उत्तरेकडील भाग



जिल्हा	तालुका	ज्या डोंगरी भागात	पूर्ण गट ज्या	उपगट ज्या	शेरा
		आहे त्या डोंगराचे	तालुक्यात ५०	तालुक्यात २०	
		नाव	टक्के पेक्षा जास्त	टक्के पेक्षा जास्त	
			क्षेत्र आहे तो पूर्ण गप्त	व ५० टक्के पेक्षा कमी आहे तो उप	
			गट	भाषा आह ता उप गट	
9	२	ş	8	ц	ξ
४. सिंधुदुर्ग	२५. कणकवली	पश्चिम घाट	पूर्ण गट (२१)		
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	३३. दिंडोरी	पश्चिम घाट	पूर्ण गट (२९)	\mathcal{S}^{*}	
	३४. पेठ	पश्चिम घाट	पूर्ण गट (३०)		
	३५. सुरगाणा	पश्चिम घाट	पूर्ण गट (३१)		
	३६. कळवण	पश्चिम घाट	पूर्ण गट (३२)		
	३७. बागलाण	पश्चिम घाट	पूर्ण गट (३३)		
	(सटाणा)				
	३८. सिन्नर	पश्चिम घाट	पूर्ण गट (३४)		
६. अहमदनगर	३९. अकोला	पश्चिम घाट	पूर्ण गट (३५)		
	४०. संगमनेर	पश्चिम घाट	पूर्ण गट (३५)		
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~ ~	(राजगुरुनगर)				
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	४६. मुळेशी	सहयाद्री पर्वत रांगा	पूर्ण गट (४१)		
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	५१. वाई	सहयाद्री पर्वत रांगा	पूर्ण गट (४६)		
	•	•			



जिल्हा	तालुका	ज्या डोंगरी भागात	पूर्ण गट ज्या	उपगट ज्या	शेरा
	तालुफ	आहे त्या डोंगराचे	पूर्ण गेट खा तालुक्यात ५०	तालुक्यात २०	!!!</th
		नाव	टक्के पेक्षा जास्त	टक्के पेक्षा जास्त	
			क्षेत्र आहे तो पूर्ण	व ५० टक्के पेक्षा	
			गट	कमी आहे तो उप गट	
				10	
9	२	3	8	ц	Ę
	५२. पाटणा	र सहयाद्री पर्वत रांगा	पूर्ण गट (४७)	3	Ч
	५३. जावळी	सहयाद्री पर्वत रांगा	पूर्ण गट (४८)		
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	५५. खटाव	सहयाद्री पर्वत रांगा	पूर्ण गट (५०)		AX
	५६. खंडाळा	सहयाद्री पर्वत रांगा	पूर्ण गट (५१)		
	५७. कोरेगांव	सहयाद्री पर्वत रांगा	पूर्ण गट (५२)		
	५८. कराड	सहयाद्री पर्वत रांगा	पूर्ण गट	उपगट (६)	पूर्वेकडील पश्चिम भाग
				उपगट (७)	ू पूर्वेकडील काही भाग,
	६०. फलटण	सहयाद्री पर्वत रांगा	पूर्ण गट	उपगट (८)	ें दक्षिणेकडील व पूर्वेकडील भाग
९. सांगली	६१. शिराळा	सहयाद्री पर्वत रांगा	पूर्ण गट (५३)	NV	
 १०. कोल्हापूर	६२. शाहूवाडी	सहयाद्री पर्वत रांगा	पूर्ण गट (५४)	\bigcirc	
	६३. पन्हाळा	सहयाद्री पर्वत रांगा	पूर्ण गट (५५)	6	
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	६६. राधानगरी	सहयाद्री पर्वत रांगा	पूर्ण गट (५८)		
	६७. कागल	सहयाद्री पर्वत रांगा	पूर्ण गट (५९)		
	६८. भुदरगड	पश्चिम घाट	पूर्ण गट (६०)		
	६९. आजरा	पश्चिम घाट	पूर्ण गट (६१)		
	७०. चंदगड	पश्चिम घाट	पूर्ण गट (६२)		
	७१. गडहिग्लंज	पश्चिम घाट	पूर्ण गट (६३)		
११. धुळे	७२. साक्री	पश्चिम घाट	पूर्ण गट (६४)		
	७३. नवापूरी	पश्चिम घाट	पूर्ण गट (६५)		
	७४. अक्कलकुवा	सातपुडा डोंगर	पूर्ण गट (६६)		
1	७५. अकाणी	सातपुडा डोंगर	पूर्ण गट (६७)		
	७६. शिरपूर	सातपुडा डोंगर	पूर्ण गट (६८)		
	७७. शहादा	सातपुडा डोंगर		उपगट (९)	पूर्वेकडील व थोडा उत्तरे - कडील भाग
	७८. तळोदा	सातपुडा डोंगर		उपगट (१०)	उत्तरेकडील भाग
१२. जळगांव	७९. चोपडा	सातपुडा डोंगर		उपगट (११)	उत्तरेकडील भाग
	८०. यावल	सातपुडा डोंगर		उपगट (१२)	उत्तरेकडील भाग
	८१. रावेर	सातपुडा डोंगर		उपगट (१३)	उत्तरेकडील भाग



जिल्हा	नानका	ज्या डोंगरी भागात	पूर्ण गट ज्या	उपगट ज्या	शेरा
	तालुका	आहे त्या डोंगराचे			2171
			तालुक्यात ५०	तालुक्यात २०	
		नाव	टक्के पेक्षा जास्त	टक्के पेक्षा जास्त	
			क्षेत्र आहे तो पूर्ण	व ५० टक्के पेक्षा	
			गट	कमी आहे तो उप	
				गट	
٩	ર	ş	8	ч	દ
	८२. ऐदलाबाद			उपगट (१४)	काही भाग पूर्वेकडील व काही
		सातपुडा डोंगर			भाग उत्तरेकडील
१३. अमरावती	८३. धारणी	सातपुडा डोंगर	पूर्णगट (६९)		N
	८४. चिखलदरा	सातपुडा डोंगर	पूर्णगट (७०)		0V
१४. यवतमाळ	८५. पुसद	सतमाळा रांगा	पूर्णगट	उपगट (१५)	उत्तर पश्चिमेकडील भाग, थोडा मध्यमभाग
	८६. अमरखेड	सतमाळा रांगा		उपगट (१६)	उत्तरेकडील व पूर्वेकडील भाग
१५. नांदेड	८७. किनवट	सतमाळा रांगा	पूर्णगट (७१)	0.	2
१६. अकोला	८८. पातूर	अजिंठाचे डोंगर	/	उपगट (१७)	दक्षिण व पूर्व
१७. बुलढाणा	८९. खामगांव	अजिंठाचे डोंगर	- (उपगट (१८)	उत्तर व पूर्वेकडील भाग
१८. औरंगाबाद	९०. कन्नड	अजिंठाचे डोंगर	0	उपगट (१९)	उत्तरे व पूर्वेकडील भाग
	९१. खुलताबाद	अजिंठाचे डोंगर	- ÷ 1/	उपगट (२०)	मधला व दक्षिणेकडील भाग
	९२. सोयगांव	अजिंठाचे डोंगर	पूर्णगट (७२)	-	-
	९३. सिल्लोड	अजिंठाचे डोंगर		उपगट (२१)	उत्तरेकडील व थोडा दक्षिण
		Ca			पश्चिमेकडील भाग
१९. परभणी	९४. हिंगोली	अजिंठाचे डोंगर	-	उपगट (२२)	दक्षिणेकडील भाग
	९५. कलमनूरी	अजिंठाचे डोंगर	-	उपगट (२३)	दक्षिणेकडील भाग

אושסוע פויוע -



शासन निर्णय, ग्राम विकास विभाग क्र.

ग्रापापु १०९०/सीआर-१६३/३९-अ, दि. ७ डिसेंबर १९९० चे सहपत्र

परिशिष्ट - २

तालुकावार यादीतील उपगट म्हणून घोषित केलेल्या तालुक्यातील गावांची यादी दर्शविणारे विवरणपत्र

जिल्हा म्हणून	उपगट तालुक्यातील गावांची नावे
घोषित केलेला	°
तालुका	
१) ठाणे	१) चांदज २) तिपलिया ३) शिवनासा ४) पानसा ५) उसगांव ६) पारोळ ७) शिरवली ८) जळकीया – ९) वसई
वसई	१०) सारवण ११) घाटेघर १२) भावखल १३) पेलाट १४) साजिवली १५) दापेवली १६) कार्जुरा १७) खाडेकर १८)
	भिडा १९) खोलसट २०) खेरे २१) संदा २२) चुडाल २३) तिल्हेस २४) सावट २५) मरतारी २६) बिलवूडा २७)
	गया २८) दडविरा २९) सातिवली ३०) खाडी ३१) दैंडा ३२) दडीप ३३) वामन ३४) काजू ३५) कोल्ही ३६) कोळा
	३७) चिंचाटी ३८) होवाऊन
२) भिवंडी	१) गणेशपूरी २) वडवली ३) उसगांव ४) धाडगांव ५) आंदीपाडा ६) गोबाटा ७) मोहिली ८) बावची ९)
Ĺ	मालवियोर १०) बेलोली ११) उसपाडी पाडा १२) आंबराई पाडा १३) घ्यार १४) खंडकी खुर्द १५) पिंपळशेत १६)
	खडकी बुद्रुक १७) भाऊपोळ १८) कुहापाडा १९) कुहा २०) आंबापाडा २१) देवपाडा कुलईपाडा २९) पायगांव ३०)
	पाया ३१) पेरुनपाडा ३२) भावडीपाडा ३३) खार भाव ३५) गाना ३६) लाकेवली ३७) चिंचपाडा ३८) गौरीपाडा ३९)
	डोकरपाडा ४०) अलकौअरी
रायगड	१) माणिकघर २) घोडसावना ३) सावना ४) बामणोरी ५) नामदेवी ६) देवलोळी ७) छावना ८) कालेवली ९)
३) पनवेल	सारसाई १०) आपटा ११) कासव १२) कारडा १३) देवटी १४) बुलसुडा १५) अकूवडी १६) घुराडाव १७) वावेघर
	१८) कोष्टी १९) दापोवली २०) देवतुला २१) सावला २२) करनाहा २३) कला २४) वंडाना २५) कारल २६)
	दुलघट २७) कासभाट २८) दिघारी २९) हातवंडी
रत्नागिरी	१) अंबावना बुद्रुक २) केंजालघर ३) लोरी ४) हेल्टी ५) गारीपाडा ६) पेवा ७) पांडेरी ८) पाडवा ९) अंबरसेंट १०)
४) मंडणगड	टी व्हेसाई ११) टेरी १२) लोकरवन १३) महाप्रत १४) हडघर १५) तांभी १६) लोहरा १७) गौरज १८) कुंभार १९)
	गोवेळे २०) पन्हाली २१) धुरी २२) तारवली २३) आंबेगण २४) धनगर २५) सारळ २६) अडखळ २७) व्हेसाई
· · · · · ·	२८) पाट २९) अेंजला ३०) सोडली तर्फे व्हेसाई ३१) बुडळ ३२) खुर्द ३३) शिगाव ३४) साडा ३५) तळघर ३६)
	टाकेडी ३७) पाचरोल ३८) धामणी ३९) वोरखट ४०) गोवा ४१) धमणघर ४२) सामोटी ४३) निगडी
सिंधूदूर्ग	१) कुसीस २) असरुडी ३) भवानी ४) वंजकार ५) टाटारभाव ६) भाटपावणी ७) शिरावडे ८) राटीवडे ९)
५) मालवण	आजगणी १०) ब्राम्हण ११) हिवाळे १२) ओवलीये १३) खाटले १४) डुंडुल १५) वायंनगावडे १६) वायरन १७) पोईप
	१८) नेसूरे १९) वाडेच्या पाट २०) नवापाट २१) गोलवणे २२) डीकवळ २३) चापेखोल २४) कुमामे २५) नांदोसा
	२६) तिरावडे २७) पारस २८) डेहूल



जिल्हा म्हणून		उपगट तालुक्यातील गावांची नावे
ाजल्हा म्हणून घोषित केलेला		ડપગટ તાલુજ્યાતાલ ગાવાવા નાવ
तालुका		
सातारा		१) मरळी २) चोरजवाडी ३) कोरीवळे ४) बेलदारे ५) म्होप्रे ६) भोळेवाडी ७) साकुडी ८) येणके ९) कोळे १०)
६) कराड		कुसूर ११) तुळवण १२) सवादे १३) लाटकेवाडी १४) हवेलवाडी १५) म्हासोळी १६) शेळके वाडी १७) मनु १८)
		येवती १९) घराळवाडी २०) हणमंतवाडी २१) टाळगांव २२) येळगांव २३) गौरेवाडी २४) गणेशवाडी २५) भरेवाडी
		२६) सोळशिरभे २७) महारगडेवाडी २८) जिती २९) अक्काईवाडी ३०) कासारशिरमे ३१) निगडी ३२) धोलपावाडी
		३३) किवळ ३४) खोडताईवाडी ३५) मसूर ३६) हणबरवाडी ३७) वाण्याची वाडी ३८) मालवाडी ३९) कांबीखाडी
		४०) शिरगाव ४१) तुळी ४२) पाल ४३) हरपळवाडी ४४) रिसवड ४५) वस्ती साकडी ४६) सांजूर ४७) ताबवे
		४८) आरेवाडी ४९) गमेवाडी ५०) मोळवाडी ५१) डोळेवाडी ५२) पांढरीवाडी ५३) आणे ५४) अंबवडे ५५)
		तारुख ५६) भवानपाडा ५७) शितलवाडी ५८) चिरवली ५९) घरचुंद ६०) कामथी ६१) वाघेरी ६२) करवडी ६३)
		हजरार माची ६४) वानरमाची ६५) वनवासमाची ६६) राजमाची ६७) टेंभू ६८) भयापूर ६९) कोरेगाव ७०) कार्वे
		७१) वडगांव हवलेली ७२) शेपोली कालवडे
		७९) पंडनाय हेपराला ७२) रापाला प्रालयड
सातारा		१) सालपे २) आदकीखुर्द ३) आळजापूर ४) कोराळे ५) वाघोशी ६) लाथवडा ७) मानेवाडी ८) झाडकबाईवाडी ९)
७) फलटण		वेलोशी १०) उजलवे ११) दाववाडी १२) भीरेवाडी १३) गिरवी १४) धमाळवाडी १५) बेडकेवाडी १६) साकळ १७)
		भाडळी खुर्द १८) दुधेभावी १९) जावली २०) आंदुड २१) कुरवाली बु.
		ાહેલા લુવ ૧૦) યુવગાળા ૧૬) ગાળવા (૦) ગાયુલ ૧૬) યુરાગાવા યુ.
सातारा		१) कळसकर वाडी २) गाडेवाडी ३) भिंडी बुद्रुक ४) पाळवण ५) तोंडले ६) उगळेवाडी ७) शिंदी बुद्रुक ८)
८) मान		शिंगणापूर ९) भांडळी १०) इंजतात ११) कळचांडी १२) विरळी १३) वळई १४) कुक्कडवाड १५) मखणे १६)
		काळेवाडी १७) बोरगेवाडी १८) किरकसाड १९) हिमानगड २०) दिवडी २१) पांढरीवाडी २२) स्वरपवानवाडी २३)
		शिंदी बुद्रुक २४) बोथे
। धुळे	(۶	१) काकरेदे खुर्द २) काकरेदे बुद्रुक ३) कोंढावळ ४) चांदसेली ५) चिंरडे ६) वरुड बुद्रुक ७) मळगाव ८) भुलाना
पुळ शहादा	3)	९) दरा १०) राणीपूरी ११) आकसपुर १२) मानमोडया १३) नागझरी १४) लंगडी भवसनी १५) कुक्कडवाड १६)
रालापा		मखणे १७) आभाडपूर खुर्द १८) टरबा १९) नायगांव २०) सिसुरा २१) पेटा २२) फोफाराळे २३) चांदपूर २४) गुदा
		२५) इकरास २६) काटघर २७) पिरपूर
		रेप) इफरास रेद) फोटवर रेछ) विरेषूर
धुळे		१) सोज्रवाडा २) माळखुर्द ३) चौगाव खुर्द ४) लाकुड शेट ५) खर्डी खुर्द ६) काठोर ७) बंधारा ८) खडी बुद्रुक ९)
१०) तळोदा		जुवाणी १०) लाखापूर ११) माळ १२) मोरामाळ १३) आंबा गव्हाण १४) सीत पावळी १५) बामनी १६) मलुवा १७)
		राजापूर
.		
जळगांव	११)	१) मराठा २) सत्रासेन ३) खांडरा ४) भोरचिडा ५) उमरटी ६) गोवापाडा ७) कृष्णापूर ८) खाऱ्यापाडा ९) विजापूर
चोपडा		१०) मुख्यावतार ११) शेतपाणी १२) बोअरअंनती १३) मालापूर १४) विषणापूर १५) बोरमळी १६) कर्जाणा १७)
		मेलाना १८) देव्हारी
जळगांव	१२)	१) मनुबाई देवस्थान २) लंगडया आंबा ३) गढूऱ्या ४) जामन्या ५) उसमळी ६) हरीपूरी ७) नागदेवी ८) वाघझीर
यावल		९) आसरा वारी



जिल्हा म्हणून	उपगट तालुक्यातील गावांची नावे
घोषित केलेला	
तालुका	
जळगांव १३)	१) तिडया २) अंधारमाळी ३) मोहमोडी ४) चिचाडी ५) चिमडया ६) गारखेडा ७) मोहमांडली सून ८) पिंपट कुंड
रावेर	९) पाल १०) मोरव्हाल ११) जिन्सी १२) गारखेड १३) सहस्नलिंग १४) लालमाती
जळगांव	१) दुई २) सुकली ३) सोमणगांव ४) डोलरखेड ५) नोंदवेल ६) वायल ७) चारठाणे ८) देवी मंदिर ९) मोरझिरा
१४) ऐदलाबाद	१०) जोनधखेड ११) लालगोडा १२) हलर्खेडा
बुलढाणा	१) गिरोळी २) इसालवाडी ३) चिंचखेडनाथ ४) कठडेगांव ५) चिंचखेडबंड ६) शेंद्री ७) मांडणी ८) बोथा ९) खेर्डी
१५) खामगांव	१०) वाकी ११) गारखेड १२) गारोडी १३) धार १४) माटरगांव १५) चिंचखेड १६) कान्टी १७) कझर १६) पिंपरी
	१७) धनगर १८) लाखनवाडी खुर्द १९) पत्तेपूर २०) निमखेडा २१) हिवरखेडा २२) निरोडा
अकोला	१) अंबारी २) भानोसा ३) बेलवळ ४) बलकापूर ५) भोकद कंदोली ६) बडीआमराई ७) बोडसा ८) खानापूर ९)
१६) पातूर	काकडदारी १०) कोटारी बुद्रुक ११) पासटल १२) कोसगांव १३) माळराजूरा १४) सावरखेड १५) चिंचखेड पातूर
	१६) शेकापूर १७) कार्ला १८) चारमुळी १९) धरम २०) पांदुर्णा २१) सोनुना २२) चिखलपाव्हळ २३) चोंडी २४)
	जांब २५) चिंचखेड २६) गोळेगांव २७) आधार सावंगी २८) गावडगाव २९) सावरगांव
यवतमाळ	१) पिंपळगांव २) हौसापूर ३) बामनवाडी ४) कोऱ्होळ ५) गहूळी ६) चोडी ७) चिंचघाट ८) देवगव्हाण ९)
१७) पुसद	बेलगव्हाण १०) जामनी धुद ११) मोरगड १२) उडाणी १३) पारवा १४) पांदूणी खुर्द १५) खटकोला १६) पन्हाळा
	१७) मांजरजवळा खुर्दा १८) मांजरजवळा १९) सावतमाळ २०) हनवंतखेड २१) मारवाडी २२) अमृतनगर २३)
	धनतळ २४) अनजळ २५) उपवनवाडी २६) रामपूरनगर २७) दुर्धागरी २८) अनसिंग २९) जांबनाइकर ३०) शिलोना
यवतमाळ	१) दिडाळा २) पाडी ३) पिंरजी ४) गोविदपूर ५) कुरळी ६) जाम ७) अकोली ८) सातारा ९) मसळग १०) पाडी
१८) उमरखेड	११) जेवळी १२) पिंपळगांव १३) बोडखा १४) पेधा १५) उदापूर १६) सावरगांव १७) परोटी १८) नानी १९) बोरी
	२०) धेरडी २१) पवनाळा २२) सोनदामी २३) येकंबा २४) मोरचंडी २५) कोसंबी २६) चिखली २७) रामपूर २८)
	बोरगांव २९) डोंगरगाव ३०) धडोली ३१) भोईर ३२) नवेलालपूर ३३) दिग्रस ३४) काटी ३५) कवटा ३६) वहेली
	३७) वानोरा ३८) शिवाजीनगर ३९) जवराळा ४०) उमरी ४१) असोली ४२) सेवालालनगर ४३) वडगांव ४४)
	दामसरी ४५) थार बु. ४६) सेरंडी ४७) दरारी ४८) मधुरानगर
औरंगाबाद	१) धनशिगवाडी २) बाभुळगाव ३) पोखरी ४) बावरा ५) मोमोनाबाद ६) लेहा ७) बाधेगाव बु. ८) अंधारी ९)
	जातवा १०) अमरावती ११) घाटनांदा १२) परदेशीवाडी १३) चारनेर १४) धावडा १५) अंधारवाडी १६) कडेगाव
१९) सिल्लोड	१७) सिरसाम १८) नातेगाव १९) घाटमखेळ २०) हालदा २१) पिंपळदरी २२) मुखबार २३) वाघरा २४) रांजणी
	२५) अजिंठा २६) अनाड २७) आमसरी २८) नारवी २९) वडाळी



जिल्हा म्हणून	उपगट तालुक्यातील गावांची नावे
घोषित केलेला	, and the second s
तालुका	
तालुका परभणी २०) हिंगोली	१) नरसी २) लोहगांव ३) सेवली ४) पिंपळी ५) बोरळा ६) जळगांव ७) शेलेगांव ८) सोनेगांव ९) पिंपरखेड १०) देवळा ११) अनपनवाडी १२) ससुळापूर १३) माथा १४) मूर्तिजापूर १५) केहरपिंपरी १६) सिध्देश्वर १७) दिघुळ १८) टुडचना १९) बडचुना २०) ओढा २१) हनुमानदरी २२) शिवकार २३) जामला २४) जामदन २५) बैजापूर २६) खंबाळा २७) फासेले २८) तबलीगव्हाण २९) मांडेगांव ३०) राख ३१) जामरी खुर्द ३२) पांगरी ३३) बोराळा ३४) नांदूरा ३५) कडवी ३६) आमनखेड ३७) ब्रम्हपूरी ३८) खळगांव ३९) जामसन ४०) पारडी ४१) खळगांव ४२) रिधोस ४३) तेजगांव ४४) कोळंब ४५) सूकली बु. ४६) सुकली ४७) शिंदेपळ ४८) धनगरवाडी ४९) सबळखेड ५०) बा भुळगांव ५१) गोरेगाव ५२) पोंडीखुर्द ५३) ब्रम्हणवाडी ५४) पिंपरी पाथबळ ५५) बोरखेड ५६) एकवा ५७) खंडाळा ५८) चिंचोळी ५९) बेलरा ६०) आडगांव ६१) देवटाण ६२) काळेगांव ६३) कलोखेड ६४) कपकुली ६५) चाटोना ६६) देवटाण
औरंगाबाद २१) कन्नड	१) तांदूळवाडी २) पेवली ३) मुमसापूर ४) पेकडवाडी ५) कोंडवाडी ६) कल्याणी ७) वडनेर ८) अंबाला ९) आंबा १०) जामडी ११) रेळ १२) कुंजखेड १३) नांदगिरवाडी १४) हिवरखेड १५) वडाळी १६) जेतखेड १७) मालेगांव ढोंकळ १८) भारवा १९) मालेगांव लाखोंडे २०) मोहाडी २१) हस्ता २२) माहेगांव २३) चेडसर २४) पळशी खुर्द २५) कांबळी २६) भिलदरी २७) गोर पिंपरी २८) सवखेड बु. २९) पिंपरखोडा ३०) सफीयाबाद ३१) खडकी ३२) पिशीर ३३) भातवाडी ३४) वासडी ३५) निंभोरा ३६) उमरखेड ३७) सावरगांव ३८) धामणी ३९) आंबेवाडी बु.
	४०) मेहुण ४१) हारेवाडी ४२) वडगांव ४३) लोझा ४४) पांगेरी ४५) भापेवाडी ४६) सोनवाडी ४७) शिवघाट ४८) चिमणापूर ४९) नागापूर ५०) करंजखेड ५१) रेडळगांव ५२) नेवूपूर ५३) घाटशेंटा ५४) टाकळी ५५) अंतूर ५६) लोहगांव
औरंगाबाद २२) खुलाताबाद	१) वडगांव २) पाडळी ३) शिरोळ बु. ४) सावरखेडा ५) लोधी ६) बोडक ७) खुलताबाद ८) धामणगांव ९) अब्दुलापूर १०) निरगुडी बु. ११) पिंपरी १२) जमालवाडी १३) म्हैसमाळ १४) शिरसमाळ १५) टाकळी खुर्द १६) आखतवाड १७) वेरुळ १८) मंत्रापूर १९) खुलताबाद २०) सराई २१) बदलाबाई २२) नंदुबाद २३) मापसाळा २४) रसुलपूर २५) शंकरपूरवाडी २६) साबुखेडा २७) खिर्डी २८) सोनखेडा २९) भटजी ३०) लामनगांव ३१) खोतेनापूर
परभणी	३२) विरमगांव १) खेड २) धानापूर ३) धोतरा ४) अमरखोजा ५) शिरसखुर्द ६) शिरस बुद्रुक ७) डिग्रस वापी ८) पिंपळी ९)
२३) कळमनुरी	सांडस १०) रेटकर ११) वराडी १२) खडकत ब्रुद्धक १३) खडकस खुर्द १४) मंदारी १५) गारखेड १६) महरी खुर्द १७) खडकेत १८) बैज १९) दुधेरी २०) चिंचोळी २१) खोडतला २२) पेडगांव २३) डोंगी २४) नांदुरा २५) बोलापूरी २६) तळेगांव २७) जावा २८) मिसे बुद्रुक २९) कापस ३०) शिपगी ३१) माळवाडी ३२) दाडेगांव ३३) मोतीचोर ३४) विठ्ठलवाडी ३५) पिंपरी खुर्द ३६) कानेगाव ३७) फाटणा ३८) दाभाडी ३९) पुंचा ४०) मोरगांव



MPSR2025

GENERAL NOTES



MAHARASHTRA JEEVAN PRADHIKARAN STATE SCHEDULE OF RATES FOR THE YEAR 2023-24 GENERAL NOTES

1. These rates are applicable to all MJP works in the the Maharashtra State with effect from 20 /06/ 2023

2 Item of excavation is inclusive of normal manual dewatering, however, seperate item for dewatering shall be proposed in the estimate where underground water is anticipated in significant magnitude.

3 The rates of excavation for O & M works where limited working space is available and work is required to be carried out on emergency basis, the rate should be adopted as per the actual rate analysis which shall be approved by concerned S.E. for that particular work only.

4 All Material Rates are exclusive of GST(Goods and service Tax). Rates for completed items are also exclusive of GST. While preparation of estimates prevailing GST Percentage, provision should be made separately in recapitulation sheet.

5 For all completed items, initial lead of 5 kms. is considered for collection of materials like sand, bricks, metal, stone etc. Appropriate addition for lead charges excluding loading , materials shall be done while estimation. Following quantities shall be considered for additional lead charges beyond 5 Kms for materials required for concrete and reinforcement structures.

	RCC ESR					
Capacity (Lit)	Staging (M)	Concrete Qty (Cum)	Reinforcement Qty. (MT)			
20000	12	27.4	2.14			
30000	12	32.7	2.55			
40000	12	37.8	2.95			
50000	12	41.9	3.27			
60000	12	46.4	3.62			
70000	12	51.2	3.99			
75000	12	53	4.13			
80000	12	56	4.37			
90000	12	62.4	4.87			
125000	25	107.4	8.38			
150000	12	89.8	7.00			
160000	12	94.3	7.36			
175000	16	117.6	9.17			
200000	20	143.6	11.20			
200000	25	157	12.25			
250000	25	177	13.81			
300000	25	206	16.07			

Note: Spiral staircase not considered. Above quantities shall be considered for all types of foundation (SBC) and all types of Seismic Zones.

RCC GSR					
Capacity (Lit)	Concrete Qty	Reinforcement Qty. (MT)			
25000	13.58	0.9448			
50000	18.45	1.5856			
75000	30.45	2.0952			
1,00,000	39.31	2.7072			
1,50,000	54.699	3.778			
2,00,000	73.313	6.577			
3,00,000	95.092	9.874			
5,00,000	143.277	11.90			
10,00,000	222.441	15.418			
(For WTP/STP works.quantities of co	ompleted/ongoing works shall be	e considered.)			



6 These rates are applicable to water supply and sewerage schemes and its allied works only. Rates for Items required for general construction, buildings, roads, Irrigation Works etc. shall be adopted from the current schedule of rates of P.W.D. or Irrigation Deptt. in respective areas. For bore wells, DSR. of GSDA shall be followed. Increase in percentage over normal schedule of rates will also be as per norms of respective D.S.R

7 For mechanical and electrical items related to water supply and sewerage schemes, DSR for 2023-24 prepared by Superintending Engineer (Mechanical), Maharashtra Jeevan Pradhikaran shall be adopted.

8 Following increase in % over normal schedule of rates of M.J.P. for 2023-24 will be applicable. (Ref. PWD GR. No. DSR/1091/CR-6577/Planning-3,dated 08/07/2003).

Sr. No	Area	% Increase
а	Works in Corporation area	5%
b	Works in Municipal areas	2%
С	Works in tribal area/ hilly and inaccessible areas / MMRDA	10%
d	Suger cane area (within 10.0 Km radius)	5%
е	Prison/ Jail area	15%
f	Defense area	20%
g	Excavation for pipeline work along National Highway	10%
h	Excavation for Dist. system pipe lines, Sewerage system in towns	10%
i	Rajbhavan	20%
j	Foe Naxalite Area (Notified)	10%

Note:-The superintending engineer should specify sugar factory areas.

9. In case more than one percentage increase on basic rates becomes admissible, instead of adding both, the higher percentage only be taken. (e.g. if any Municipal Council falls in hilly area, then additional percentage in rates will be only 10 % and not with 2 % +10 %). This additional percentage is only on completed item of work and not applicable to items of providing of materials like steel, pipes, valves, specials etc.

10 For hilly and inaccessible areas / tribal areas approved by Government, Planning Department's Circular Nos. (1) 1089/CR-66/Plan-19, dt.23/11/1990 and (2) 1094/P-36/K-1455 dt.02/09/1994, shall be followed. In addition to amendment notified by the Planning Deptt. from time to time.

11 For Action Plan Notified Area, Government's Circular in force from time to time shall be followed.

12 Whenever basic rates of completed items are increased by percentage given at Sr. No. 8, the issue rates of materials to be supplied by the Department (if any) shall be increased by same percentage.

13 This schedule of rates is based on following basic rates for important materials.

Sr. No	Material	Rate in Rs. Per MT.
а	Cement	6000/-
b	Mild Steel	56118/-
С	Tor Steel/CTD bars	60261/-
d	Structural Steel	59974/-
е	Corrosion Resistant Steel (Fe 500)	59533/-

14) Details of standard cement consumption are incorporated in this CSR.

15) Rates for supply of various types of pipes, specials and valves are exclusive of GST but inclusive of, third party inspection charges, storage charges, overhead charges and divisional stores and stacking.

16) Cost of carting of pipes and valves from departmental stores to site of work is not considered in rate analysis, hence this item must be incorporated in each scheme. While inviting tenders if supply is from departmental store, then this item shall appear in the tender, and if the supply is by contractor then this item shall not appear in the tender, even though same is provided in sanctioned scheme, because the contractor is supposed to bring the pipes and valves directly at site.

17) Though the contractor is required to do refilling before hydraulic testing to avoid traffic hurdle, no payment for refilling of the trenches of pipeline shall be payable till satisfactory hydraulic testing is given. Re-excavation required if any, during testing, shall be done by the contractor at his own cost.

18) 10 % of cost of items of water retaining structures, such as GSR/ESR/MBR shall be retained till satisfactory hydraulic testing is given as per IS code.

19) 10 % of cost of items included in pipeline subwork excluding supply items (Pipe , All types of Valves and Specials) shall be retained, till satisfactory hydraulic testing is given as per IS code or as per tender condition/specifications.



20) In case of supply of pipes / valves , Specials etc. by contractor, only 80% payment shall be released after supply and 10% after lowering , laying & jointing and 10% after satisfactory hydraulic testing or as per tender condition.

21) AC/PVC Pipes shall not be used in urban areas with respect to circular No. 130 Dtd. 09.03.2009 of MS MJP. HDPE Pipes may be used in distribution system of urban areas with diameter restricted upto 300 mm only provided that area where these pipes are to be laid shall not be rocky area. HDPE pipe shall be as per latest is specification, Also HDPE pipes upto 110 mm Dia. shall be in coil form.

22) For use of ready mix cement concrete prior permission of Chief Engineer must be obtained in writing.

23) For Dams , Balancing Tanks , Aerated Lagoons and similar structures, the rates for Film membranes as per prevailing rates for Irrigation Department will be followed

24) Capacity of ESR / GSR to be constructed shall be rounded to nearest 1000 litres always on higher side i.e. if required capacity is 1,23,570 litre, it shall be rounded to 1,24,000 litre. required capacity is 8,26,070 litre, it shall be rounded to 8,27,000 litre.Similarly, if

25) Capacity of Unconventional / conventional Treatment Plants shall be rounded to nearest 0.5 Mldalways on higher side i.e. if WTP of 2.37 Mld is required; it shall be rounded to 2.5 Mld. For WTP having capacity less than 0.5 mld, package type WTP should be considered.

26) Provision for insurance at 1% is considered in Rate analysis of SSR 2023-24. These rates are applicable only for tendered works, these rates should be reduced by 1% of total rate when works are to be carried out on piecemeal works and other small works without tendering.

27) Rates given in this SSR are for estimation purpose only.

28) The makes of Sluice / Butterfly valves etc. to be used for inlet / outlets of ESRs / GSRs / MBRs /Pumping main / Rising main and WTP should be from approved makes of M.J.P .

29) Mechanical CSR rates for respective items shall be followed while estimation and the list of approved makes shall be given in the item.

30) Incase of Geo membrane sheet to be provided by the agency 50% payment against supply. 30% payment against lowering and 20% against Hydraulic testing is to be given.

31) The royalty charges are considered in the rate analysis of SSR 2023-24 As per Government of Maharashtra , Revenue and Forest Department Gazatte No. 67 Dt 155 May 2015.

32) As per Govt. circular no DSR-1090/CR 6453/PLN3 Dtd. 14.07.1992. 1% for labour amenities is considered while arriving the rates.

33) As per Govt. in Idustries and Power GR No. BCA 2009/CR 108/Labour 7A Dtd. 17.06.2010. 1% cess on labour welfare is considered while arriving the rates.

34) (1) Item of hydraulic testing should be measured separately, as per detail item in respective sub work.

(2) In case of water Supplied by the MJP, amount of Water Supplied should be deducted from the Item of the hydraulic testing, with prevailing rates of Non Domestic (Bulk Supply)of the WSS, as per MJPs latest notification.



SECTION - A MATERIALS

Sr. No	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
	MATERIAL			
1	Acetylene Gas	No	812	
2	Alum Grade I First	MT	8630	
3	Alum Grade IV Ex-factory	MT	9057	
4	Binding Wire	Kg	83	
5	Black enemal paint Anti corrosive	Lit	229	
6	Bricks	No	7	
7	Bullies, Struts (125 mm dia 1.5 M long)	Rmt	211	
8	C.C.Teak wood planks(3" X 6")	Cum	80025	
9	Cement (Bags)	Bag	300	
10	Cement (M.T.)	MT	6000	6
11	Cement Sulphar Resistant	MT	6636	
12	Charcoal	Kg	32	
13	Corrosion Resistant steel	MT	59533	
14	Diesel	Lit	93	
15	Epoxy paint	Kg	481	
16	Fuse	No	25	
17	Gun Powder	Kg	94	
18	Liquid chlorine 100 kg Deptt. Container	No	2753	
19	Liquid chlorine 100 kg supplier Container	No	17005	
20	Liquid chlorine 900 kg Supplier Container		2732	
21	Liquid chlorine 900 kg Deptt Container	No	16768	
22	Lubricant Oil	lit	295	
23	M.S.angle(50x50x6mm)	Kg	60	
24	M.S.Bars (Delivery at site)	MT	56118	
25	M.S.Bars (in kgs)	Kg		
26	M.S.Flats (40 mm x 3 mm)	Kg	57	
27	M.S.plate	Kg	66	
28	Magnafloc coagulant aid	MT	12353	
29	Mild steelGrill ready	Kg	87	
30	Mildsteel grill railing	Kg	88	
31	Mobile oil	Lit	338	
32	Murum	cum	360	
33	Nails	Kg	89	
34	Nutbolts	Kg	106	
35	Oxygen Gas (Refill)	Cylinder	355	
36	Polling board	cum	16238	
37	Quarry spalls	cum	303	

Sr. No	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
38	R.S.Joist channel etc	MT	60782	
39	Rapid sand Gravity filter sand At Source (Godhara, Gokak, Kanhan, Yesagi sand)	Cum	2185	
40	Rapid sand Gravity filter Gravel At Source	Cum	2185	
41	Ready mixed lead/zinc paint	Lit	254	
42	Ready mix oil paint	Lit	264	
43	Ready mix primer	Lit	173	
44	Ready mix primer for steel	Lit	183	
45	Rubber Gasket (6 mm thick)	Kg	93	X
46	Sand	cum	2133	
47	Kasarde sand (for mortar lining work) @ source	cum	2424	<i>p</i>
48	Spun Yarn	Kg	104	
49	Stone Aggregate 10 mm	cum	104	
		- ()		
50	Stone Aggregate 20 mm	cum	1022	
51	Stone Aggregate 40 mm	cum	1038	
52	Rubble (Stone at quarry)	cum	506	
53	Structural Steel	MT	59974	
54	T.C.L.(bleaching poweder Gr.I) (25kg pack)	Kg	27	
55	Teak wood	Cum	83775	
56	Tor Steel	MT	60261	
57	Walling (100x100mm)	cum	18208	
58	Welding Rod Having weight 5.25 kg	Box	1394	
59	White cement	Kg	32	
60	White lead	Kg	181	
61	Wire	Kg	90	
62	Plywood Commercial 12 mm thick Waterproof for centering (Taken in analysis for RCC items only)	Sqm	486	
63	Coarse Sand	Cum	1696	
64	PAC Poweder High Basecity	MT	33750	
65	PAC Poweder High Basecity Liquid	MT	11628	
66	Ready mixed Synthetic Enamel paint	Lit	195	
67	Ready mixed Aluminium paint	Lit	342	
68	GI SHEET	Kg.	89	
	· ·			
69 70	Turpentine Alumina Ferric (Liquid Alum) Grade 5	Ltr. MT	89 11000	



SECTION - B LABOUR & MACHINERY

Sr. No	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
	LABOUR AND MACHINERY			
1	Asst Fitter	No.	641	
2	Bhandhani	No.	641	
3	Bhisti with pakahal	No.	641	
4	Blacksmith Ind class	No.	641	
5	Breaker	No.	641	
6	Carpainter 1st class	No.	668	
7	Carpainter 2nd class	No.	668	
8	Chiseller	No.	641	
9	Excavator	No.	622	N
10	Fitter 1st class	No.	668	X
10	Glazier	No.	668	
12	Helper	No.	622	1
13	Hole Driller	No.	641	
14	Mason 1st class	No.	668	
15	Mason 2nd class	No.	668	
16	MAZDOOR (FEMALE)	No.	622	
10	Mazdoor(Heavy)	No.		
17	Mazdoor (Light)	No.	622	
	, <u> </u> ,		622	
19	MAZDOOR (MALE)	No.	622	
20	Maistry Mukadam	No.	668	
21		No.	668	
22	Painter (for coloring)	No.	668	
23	Painter	No.	668	
24	Polisher	No.	668	
25	Pump Driver	No.	641	
26	StoneCutter or dresser	No.	668	
27	Tile layer	No.	668	
28	Welder	No.	668	
29	Welder for pipe line	No.	668	
30	WhiteWasher	No.	641	
31	TileTurner	No.	668	
32	L.M.V. Driver	No.	668	
33	Electrician	No.	668	
34	Plumber (Building/Pipeline)	No.	668	
35	Painter for epoxy paint	No.	668	
36	Computer operator(data entry operator)	No.	1035	
37	Meter Reader	No.	668	
38	Filter Operator	No.	668	
39	Mali	No.	668	
40	Wireman	No.	668	
41	Site supervisor	No.	1172	
42	Surveyor	No.	1172	
43	Chemist	No.	1172	



Sr. No	Description	Unit	Rate (Rs.)	Rate (Rs.) 2024-25
	HIRE CHARGES OF MACHINERIES		2023-24	2024-25
1	Rent for polishing machine with crew	Day	1234	
2	Rent for chain pully block with tripod	Day	614	
3	Rent for pump including operator & excluding fuel	BHP-Day	250	
4	Rent for Mech.Mixer with fuel & crew	Day	3401	
5	Rent for vibrator with fuel and crew	Day	1295	
6	Plate Bender	Day	1213	
7	Rent for welding set with Electric set	Day	1753	
8	Rent for welding set with Generator	Day	3130	
9	Rent for Compressor with fuel	Day	3321	X
10	Rent for Concrete breaker & Compressor	Day	3495	
11	Rent for poclain	Hour	2862	/
12	Rent for Crane	Hour	1879	v
13	Rent for JCB	Hour	1401	
14	Truck hire charges upto 20 km	Day	3243	
15	Truck hire charges for 20 km to 50 km	Day	3019	
16	Truck hire charges for 50 km & above	Day	3000	
17	Pipe cutter with operator	Day	1681	
18	Desludging / Desilting mud Pump with Operator	Day	3118	
19	Jeep hire Charges with driver (Upto 300 Km)& fuel	Day	4243	
20	Plumber (Building/Pipeline)	Day	668	
21	Painter for epoxy paint	Day	668	





SECTION - C TRANSPORTATION

			STATEMENT	I		
						Rate (Rs.) 2023-2
() 30 1 C. pir inc Pil 2 R. up dia 3 A. dia 4 P. 5 All C. we 6 Mi 7 Ce / a (B) CF inc inc 1 C.	Item of work	Unit	Collecting the railway receipt etc & unloading the consignment from railway wagon & keeping on railway platform consignment booked in.	Lifting the material from railway platform, loading Unloading into truck.	Loading the material into truck from departmental store or site of work.	Unloading the material from truck including stacking in departmental stores or site of work.
1	2	3	4	5	6	7
	MANUAL HANDLING (Weight upto & including 300 kg.)				0	X
1	C.I. / D.I. /M.S./H.D.P.E. pipes of all classes upto & including 200 mm dia. Pipes of any length.	M.T.	384	469	121	121
2	R.C.C. pipes of all classes upto & including 350 mm dia.	M.T.	384	476	121	121
3	A.C. pipes of all classes & dia.	M.T.	202	283	73	73
4	P.V.C. pipes of all classes & dia.	M.T.	202	283	73	73
5	All other materials such as C.I. Specials of individual weight upto 300 kg.	M.T.	384	476	121	121
6	Mild steel / for steel / R.S.J.	M.T.	242	326	182	182
7	Cement / bleaching powder / alum.	M.T.	116	177	92	92
(B)	CRANE HANDLING (Materials having individual weight above 300)	7			
1	C.I./D.I./B.W.S.C./ M.S./ R.C.C. pipes of all classes having individual weight more than 300 kg. & alsoother heavy materials, valves, machinery having individual weight more than 300 kg.	M.T.	228	296	212	212
	1)The above rates in col. 1 to					<u> </u>
	2) The rates given in col. 6 to will prevail.) / shall	be adopted for estima	ate purpose only, h	owever actual quo	tations / D- tender
	 Irrespective of supply of C railway freight upto destination such cases rate of Mathadi K be allowed. 	on statio	n and carting as per s	chedule from Railv	ay Station to work	site is allowed In



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cost per	trip	(13/3)			14	12340.39	13755.54	14618.35	16588.18	19685.05	22790.44	25851.19	32172	36587.23	50725.85	65129.69	79820.54	94333.36	106854.15	122857.47	138063.00	
Total	11+12				13	15548.89	15681.31	16372.55	18247.00	18503.95	18688.16	18871.37	18981.48	20488.85	20797.60	20841.50	20753.34	20753.34	21370.83	20885.77	20709.45	
Add 10%	overhead	charges	>	<	12	1413.54	1425.57	1488.41	1658.82	1682.18	1698.92	1715.58	1725.59	1862.62	1890.69	1894.68	1886.67	1886.67	1942.8	1898.71	1882.68	
Total cost	(6+8+	9+10)			11	14135.35	14255.74	14884.14	16588.18	16821.77	16989.24	17155.79	17255.89	18626.23	18906.91	18946.82	18866.67	18866.67	19428.03	18987.06	18826.77	
Hire	charges	of truck	Rs. Per	day	10	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	
cost of 6	mazdoor				6	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	4198.50	
cost of	M.Oil @	Rs. 338 / lit			œ	501.25	510.04	555.33	678.37	695.27	707.43	719.60	726.70	825.73	846.01	848.72	842.97	842.97	883.53	851.76	840.27	
Lit. of	Mobile	oi	consumed		7	1.483	1.509	1.643	2.007	2.057	2.093	2.129	2.150	2.443	2.503	2.511	2.494	2.494	2.614	2.520	2.486	1
cost of	diesel @	Rs. 93 / LIT			9	6435.60	6547.20	7130.31	8711.31	8928.00	9083.31	9237.69	9330.69	10602.00	10862.40	10899.60	10825.20	10825.20	11346.00	10936.80	107 88.00	2
Litres of	diesel	consumed			5	69.20	70.40	76.67	93.67	96.00	97.67	99.33	100.33	114.00	116.80	117.20	116.40	116.40	122.00	117.60	116.00	
Km.	Done	(2NL+6)			4	207.60	211.20	230.00	281.00	288.00	293.00	298.00	301.00	342.00	350.40	351.60	349.20	349.20	366.00	352.80	348.00	
No. of	Trips(N)=	8/ ((2L/S)+1)			ю	1.26	1.14	1.12	1.1	0.94	0.82	0.73	0.59	0.56	0.41	0.32	0.26	0.22	0.2	0.17	0.15	
Av.	Speed				2	30	30	40	40	40	40	40	40	45	45	45	45	45	45	45	45	
Lead	in km				-	80	06	100	125	150	175	200	250	300	420	540	660	780	006	1020	1140	

No. of trips in a working of 8 hours N=8 / (2(L+S) + 1) where L = Lead in km $\,$ ÷

Note:

- and S = speed, 1 hour is allowed for loading
 - Consumption of diesel taken as 3 km / litre 4) 3)
- Consumption of Mobile oil taken as 140 km / litre
- In col. 4 6 hours has been added for movement from
 - parking place to duty and back
- Hire charges will remain Rs. 1500.00 for 1200 and above km lead Labour required for loading unloading and stacking after the 6)
- No. of trips reduced below 1 is factorised with actual number of trip.



cost per	trip	(13/3)				14	541.78	606.24	669.77	731.56	794.65	856.06	917.14	977.68	1037.46	1097.42	1217.25	1336.17	1456.77	1569.96	1682.13	2143.3	2700.17	3164.11	3712.34	4048.52	4564.89	5078.81	5589.98	6114.05
Total	11+12					13	4063.35	4310.34	4534.37	4740.54	4926.81	5102.11	5264.39	5416.35	5560.78	5695.61	5940.20	6159.76	6351.52	6546.72	6728.52	7801.61	8316.53	8448.17	8723.99	9716.44	9951.45	10157.62	10341.47	10455.03
Add 10%	overhead	charges				12	369.4	391.85	412.22	430.96	447.89	463.83	478.58	492.4	505.53	517.78	540.02	559.98	577.41	595.16	611.68	709.24	756.05	768.02	793.09	883.31	904.68	923.42	940.13	950.46
Total cost	(6+8+	9+10)				11	3693.95	3918.49	4122.15	4309.58	4478.92	4638.28	4785.81	4923.95	5055.25	5177.83	5400.18	5599.78	5774.11	5951.56	6116.84	7092.37	7560.48	7680.15	7930.90	8833.13	9046.77	9234.20	9401.34	9504.57
Hire	charges	of truck	Rs. Per	day	(10	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3243	3019	3019	3019	3019	3019	3019	3019
cost of 6	mazdoor					6	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000
cost of	M.Oil @	Rs. 338 / lit				œ	32.45	48.67	63.54	77.06	89.23	100.72	111.54	121.34	130.81	139.93	155.82	170.35	182.86	195.70	207.53	278.17	311.97	336.65	354.90	420.13	435.68	449.20	461.03	468.47
Lit. of	Mobile	oil con-	sumed			7	0.096	0.144	0.188	0.228	0.264	0.298	0.330	0.359	0.387	0.414	0.461	0.504	0.541	0.579	0.614	0.823	0.923	0.996	1.050	1.243	1.289	1.329	1.364	1.386
cost of	diesel @	Rs. 93 / LIT				9	418.50	626.82	815.61	989.52	1146.69	1294.56	1431.27	1559.61	1681.44	1794.90	2001.36	2186.43	2348.25	2512.86	2666.31	3571.20	4005.51	4324.50	4557.00	5394.00	5592.09	5766.00	5921.31	6017.10
Litres of	diesel	cons	umed			£	4.50	6.74	8.77	10.64	12.33	13.92	15.39	16.77	18.08	19.30	21.52	23.51	25.25	27.02	28.67	38.40	43.07	46.50	49.00	58.00	60.13	62.00	63.67	64.70
Km.	Done	(2NL+6)				4	13.50	20.22	26.31	31.92	37.00	41.76	46.18	50.32	54.24	57.90	64.56	70.54	75.76	81.06	86.00	115.20	129.20	139.50	147.00	174.00	180.40	186.00	191.00	194.10
No. of	Trips(N)=	8/ ((2L/S)	+1)			3	7.5	7.11	6.77	6.48	6.2	5.96	5.74	5.54	5.36	5.19	4.88	4.61	4.36	4.17	4	3.64	3.08	2.67	2.35	2.4	2.18	2	1.85	1.71
Av.	Speed					2	15	16	16.5	17	17.25	17.5	17.75	18	18.25	18.5	18.75	19	19.183	19.6	20	25	25	25	25	30	30	30	30	30
Lead	in km					÷	0.5	Ł	1.5	2	2.5	3	3.5	4	4.5	5	9	7	8	6	10	15	20	25	30	35	40	45	50	55

STATEMENT III

Excluding loading, unloading and stacking

(19)

per		3)			14	7139.27	8176.13	9199.67	9531.06	10485.48	12865.92	15285.64	17658.85	22440.75	26485.67	37641.26	48957.24	60163.15	71264.74	82395.3	93185.44	104469.19	
cost pei	trip	(13/3)				71	81	91	95	10	128	152	17(52	26	37(489	09	71:	8	63	104	
Total	11+12				13	10708.91	10874.25	11039.60	13248.17	13421.42	13766.53	13909.93	14127.08	14362.08	15891.40	16185.74	16155.89	16244.05	16390.89	16479.06	16773.38	16715.07	
Add 10%	overhead	charges	2	5	12	973.54	988.57	1003.6	1204.38	1220.13	1251.5	1264.54	1284.28	1305.64	1444.67	1471.43	1468.72	1476.73	1490.08	1498.1	1524.85	1519.55	
Total cost	(6+8+	9+10)			11	9735.37	9885.68	10036.00	12043.79	12201.29	12515.03	12645.39	12842.80	13056.44	14446.73	14714.31	14687.17	14767.32	14900.81	14980.96	15248.53	15195.52	
Hire	charges	of truck	Rs. Per	day	10	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	3019	
cost of 6	mazdoor				6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
cost of	M.Oil @	Rs. 338 / lit			8	485.37	496.18	507.00	652.00	663.49	686.14	695.60	709.80	725.35	825.73	845.00	842.97	848.72	858.52	864.27	883.53	879.81	
Lit. of	Mobile	oil con-	sumed		7	1.436	1.468	1.500	1.929	1.963	2.030	2.058	2.100	2.146	2.443	2.500	2.494	2.511	2.540	2.557	2.614	2.603	
cost of	diesel @	Rs. 93 / LIT			9	6231.00	6370.50	6510.00	8372.79	8518.80	8809.89	8930.79	9114.00	9312.09	10602.00	10850.31	10825.20	10899.60	11023.29	11097.69	11346.00	11296.71	
Litres of	diesel	cons	umed		5	67.00	68.50	70.00	90.03	91.60	94.73	96.03	98.00	100.13	114.00	116.67	116.40	117.20	118.53	119.33	122.00	121.47	∇_{n}
Km.	Done	(2NL+6)			4	201.00	205.50	210.00	270.10	274.80	284.20	288.10	294.00	300.40	342.00	350.00	349.20	351.60	355.60	358.00	366.00	364.40	4
No. of	Trips(N)=	8/ ((2L/S)	+1)		с	1.5	1.33	1.2	1.39	1.28	1.07	0.91	0.8	0.64	0.6	0.43	0.33	0.27	0.23	0.2	0.18	0.16	
Av.	Speed				2	30	30	30	40	40	40	40	40	40	45	45	45	45	45	45	45	45	
Lead	in km				-	65	75	85	95	105	130	155	180	230	280	400	520	640	760	880	1000	1120	



	X																												
	Timber	11	5.75 cum	201.31	218.40	235.12	251.18	267.75	283.64	299.43	315.01	330.28	345.61	376.29	406.61	437.57	465.65	493.34	593.41	730.37	851.10	987.41	1038.75	1162.33	1284.87	1406.33	1651.73	1898.80	2146.15
	Concrete block (form)	10	6.0 cum	192.93	209.30	225.33	240.71	256.59	271.83	286.96	301.89	316.52	331.21	360.61	389.66	419.34	446.25	472.79	568.68	699.94	815.64	946.27	995.47	1113.90	1231.33	1347.73	1582.90	1819.68	2056.73
	Soling stone	6	4.7 cum	246.29	267.19	287.65	307.29	327.56	347.01	366.33	385.39	404.06	422.83	460.35	497.44	535.33	569.67	603.56	725.97	893.54	1041.24	1208.00	1270.81	1422.00	1571.91	1720.51	2020.73	2323.00	2625.61
	Aggregate 40 mm & above	8	5.5 cum	210.47	228.33	245.81	262.59	279.92	296.54	313.04	329.33	345.29	361.32	393.39	425.09	457.46	486.81	515.77	620.38	763.57	889.79	1032.29	1085.97	1215.16	1343.27	1470.25	1726.80	1985.11	2243.71
j and stacking	Sand stone aggregate 40 mm & below	7	5.75 cum	201.31	218.40	235.12	251.18	267.75	283.64	299.43	315.01	330.28	345.61	376.29	406.61	437.57	465.65	493.34	593.41	730.37	851.10	987.41	1038.75	1162.33	1284.87	1406.33	1651.73	1898.80	2146.15
including loading, unioading and stacking	Excavated rock	9	3.0 cum	385.85	418.60	450.65	481.42	513.18	543.65	573.91	603.77	633.03	662.43	721.21	779.33	838.68	892.49	945.57	1137.36	1399.88	1631.28	1892.53	1990.94	2227.80	2462.66	2695.46	3165.81	3639.36	4113.46
Including load	Manure or sludge	5	5.52 cum	209.70	227.50	244.92	261.64	278.90	295.46	311.91	328.14	344.04	360.01	391.96	423.55	455.80	485.05	513.90	618.13	760.80	886.56	1028.55	1082.03	1210.76	1338.40	1464.93	1720.55	1977.91	2235.58
	Earth	4	4.8 cum	241.16	261.62	281.66	300.89	320.74	339.78	358.69	377.36	395.64	414.02	450.76	487.08	524.17	557.81	590.98	710.85	874.93	1019.55	1182.83	1244.34	1392.37	1539.16	1684.66	1978.63	2274.6	2570.91
	Lime murum building rubbish	3	6.0 cum	192.93	209.3	225.33	240.71	256.59	271.83	286.96	301.89	316.52	331.21	360.61	389.66	419.34	446.25	472.79	568.68	699.94	815.64	946.27	995.47	1113.9	1231.33	1347.73	1582.9	1819.68	2056.73
	Cost / trip	2	Pay load	1157.56	1255.79	1351.95	1444.27	1539.54	1630.95	1721.73	1811.32	1899.09	1987.28	2163.64	2337.98	2516.03	2677.47	2836.72	3412.08	4199.64	4893.83	5677.59	5972.83	6683.39	7387.99	8086.39	9497.42	10918.09	12340.39
	Lead in km	-		0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	9	7	8	6	10	15	20	25	30	35	40	45	50	60	70	80

STATEMENT VI Including loading, unloading and stacking



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Timber	11	2392.27	2542.32	2884.90	3423.49	3963.55	4495.86	5595.13	6363.00	8821.89	11326.90	13881.83	16405.80	18583.33	21366.52	24010.96
Concrete block (form)	10	2292.59	2436.39	2764.70	3280.84	3798.41	4308.53	5362.00	6097.87	8454.31	10854.95	13303.42	15722.23	17809.03	20476.25	23010.50
Soling stone	6	2926.71	3110.29	3529.40	4188.31	4849.03	5500.25	6845.11	7784.52	10792.73	13857.38	16983.09	20070.93	22734.93	26139.89	29375.11
Aggregate 40 mm & above	8	2501.01	2657.88	3016.03	3579.10	4143.72	4700.22	5849.45	6652.22	9222.88	11841.76	14512.83	17151.52	19428.03	22337.72	25102.36
Sand stone aggregate 40 mm & below	7	2392.27	2542.32	2884.90	3423.49	3963.55	4495.86	5595.13	6363.00	8821.89	11326.90	13881.83	16405.80	18583.33	21366.52	24010.96
Excavated rock	9	4585.18	4872.78	5529.39	6561.68	7596.81	8617.06	10724.00	12195.74	16908.62	21709.90	26606.85	31444.45	35618.05	40952.49	46021.00
Manure or sludge	5	2491.95	2648.25	3005.11	3566.13	4128.70	4683.19	5828.26	6628.12	9189.47	11798.86	14460.24	17089.38	19357.64	22256.79	25011.41
Earth	4	2865.74	3045.49	3455.87	4101.05	4748.01	5385.66	6702.5	7622.34	10567.89	13568.69	16629.28	19652.78	22261.28	25595.31	28763.13
Lime murum building rubbish	3	2292.59	2436.39	2764.7	3280.84	3798.41	4308.53	5362	6097.87	8454.31	10854.95	13303.42	15722.23	17809.03	20476.25	23010.5
Cost / trip	2	13755.54	14618.35	16588.18	19685.05	22790.44	25851.19	32172	36587.23	50725.85	65129.69	79820.54	94333.36	106854.15	122857.47	138063
Lead in km	-	06	100	125	150	175	200	250	300	420	540	660	780	006	1020	1140



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Lead in km Cost / trip	Cost / trip	Cement stone block, GI CI CC AC Pipes below 120 mm dia	Tar bitumenn Asphalt roofing felt & Asphalt etc.	<u>o</u>	g ovc tings	Sheet & plate glass in packs Paints & Distempers AC Sheets & fittings iron fittings and iron sheets	Bricks modular bricks & bricks bricks	Tiles half round tiles & Roofing tiles cement flooring tiles	Glass blocks (hollow) 200x200 x120 mm	Empty cement bags
~	7	ю	4	5	9	7	8	o	10	1
	Pay load	7.0 Mt	4.5 MT	5.5 MT	3.0 MT	7.0 MT	3500 No.	3200 No.	1000 No.	2000 No.
		per 1 M.T.	per 1 M.T.	per 1 M.T.	per 1 M.T.	per 1 M.T.	per 1000 Nos.	per 1000 Nos.per 1000 Nos.per 1000 Nos.per 1000 Nos.	per 1000 Nos.	per 1000 Nos.
0.5	1157.56	165.37	257.24	210.47	385.85	165.37	330.73	361.74	115.76	578.78
-	1255.79	179.40	279.06	228.33	418.60	179.40	358.80	392.43	125.58	627.90
1.5	1351.95	193.14	300.43	245.81	450.65	193.14	386.27	422.48	135.20	675.98
2	1444.27	206.32	320.95	262.59	481.42	206.32	412.65	451.33	144.43	722.14
2.5	1539.54	219.93	342.12	279.92	513.18	219.93	439.87	481.11	153.95	769.77
e	1630.95	232.99	362.43	296.54	543.65	232.99	465.99	509.67	163.10	815.48
3.5	1721.73	245.96	382.61	313.04	573.91	245.96	491.92	538.04	172.17	860.87
4	1811.32	258.76	402.52	329.33	603.77	258.76	517.52	566.04	181.13	905.66
4.5	1899.09	271.30	422.02	345.29	633.03	271.30	542.60	593.47	189.91	949.55
5	1987.28	283.90	441.62	361.32	662.43	283.90	567.79	621.03	198.73	993.64
9	2163.64	309.09	480.81	393.39	721.21	309.09	618.18	676.14	216.36	1081.82
7	2337.98	334.00	519.55	425.09	779.33	334.00	66.799	730.62	233.80	1168.99
8	2516.03	359.43	559.12	457.46	838.68	359.43	718.87	786.26	251.60	1258.02
6	2677.47	382.50	594.99	486.81	892.49	382.50	764.99	836.71	267.75	1338.74
10	2836.72	405.25	630.38	515.77	945.57	405.25	810.49	886.48	283.67	1418.36
15	3412.08	487.44	758.24	620.38	1137.36	487.44	974.88	1066.28	341.21	1706.04
20	4199.64	599.95	933.25	763.57	1399.88	599.95	1199.90	1312.39	419.96	2099.82
25	4893.83	699.12	1087.52	889.79	1631.28	699.12	1398.24	1529.32	489.38	2446.92
30	5677.59	811.08	1261.69	1032.29	1892.53	811.08	1622.17	1774.25	567.76	2838.80
35	5972.83	853.26	1327.30	1085.97	1990.94	853.26	1706.52	1866.51	597.28	2986.42

STATEMENT VII Including loading, unloading and stacking ×



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Empty cement bags	11	3341.70	3694.00	4043.20	4748.71	5459.05	6170.20	6877.77	7309.18	8294.09	9842.53	11395.22	12925.60	16086.00	18293.62	25362.93	32564.85	39910.27	47166.68	53427.08	61428.74	69031.50	
Glass blocks (hollow) 200x200 x120 mm	10	668.34	738.80	808.64	949.74	1091.81	1234.04	1375.55	1461.84	1658.82	1968.51	2279.04	2585.12	3217.20	3658.72	5072.59	6512.97	7982.05	9433.34	10685.42	12285.75	13806.30	
Tiles half round tiles & Roofing tiles cement flooring tiles	6	2088.56	2308.75	2527.00	2967.94	3411.90	3856.37	4298.61	4568.23	5183.81	6151.58	7122.01	8078.50	10053.75	11433.51	15851.83	20353.03	24943.92	29479.18	33391.92	38392.96	43144.69	
Bricks modular bricks & bricks bricks	8	1909.54	2110.85	2310.40	2713.55	3119.45	3525.83	3930.15	4176.67	4739.48	5624.30	6511.55	7386.05	9192.00	10453.49	14493.10	18608.48	22805.87	26952.39	30529.76	35102.13	39446.57	
Sheet & plate glass in packs Paints & AC Sheets & fittings iron fittings and iron sheets	7	954.77	1055.43	1155.20	1356.77	1559.73	1762.91	1965.08	2088.34	2369.74	2812.15	3255.78	3693.03	4596.00	5226.75	7246.55	9304.24	11402.93	13476.19	15264.88	17551.07	19723.29	
Matting thatching bambu ceiling board rubber PVC pipes fittings	9	2227.80	2462.66	2695.46	3165.81	3639.36	4113.46	4585.18	4872.78	5529.39	6561.68	7596.81	8617.06	10724.00	12195.74	16908.62	21709.90	26606.85	31444.45	35618.05	40952.49	46021.00	
Steam coa	5	1215.16	1343.27	1470.25	1726.80	1985.11	2243.71	2501.01	2657.88	3016.03	3579.10	4143.72	4700.22	5849.45	6652.22	9222.88	11841.76	14512.83	17151.52	19428.03	22337.72	25102.36	1
Tar bitumenn Asphalt Flooring Asphalt etc.	4	1485.20	1641.78	1796.98	2110.54	2426.24	2742.31	3056.79	3248.52	3686.26	4374.46	5064.54	5744.71	7149.33	8130.50	11272.41	14473.26	17737.90	20962.97	23745.37	27301.66	30680.67	V
Cement stone block, GI CI CC AC Pipes below 120 mm dia	З	954.77	1055.43	1155.20	1356.77	1559.73	1762.91	1965.08	2088.34	2369.74	2812.15	3255.78	3693.03	4596.00	5226.75	7246.55	9304.24	11402.93	13476.19	15264.88	17551.07	19723.29	
Cost / trip	2	6683.39	7387.99	8086.39	9497.42	1 09 18.09	12340.39	13755.54	14618.35	16588.18	19685.05	22790.44	25851.19	32172.00	36587.23	50725.85	65129.69	79820.54	94333.36	106854.15	122857.47	138063.00	
Lead in km Cost / trip	-	40	45	50	60	02	80	06	100	125	150	175	200	250	300	420	540	660	780	006	1020	1140	





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Including loading, unloading and stacking

STEEL CYLINDERCERNONTRIMES COSH PRIFES,, UNREINFORCED CEMENT PIPES, PRECAST COCRETE PIPES

		100 mm	125 mm	150 mm	200 mm	250 mm	300 mm	300 & 400 mm	450 & 500 mm	600, 700 & 750 mm	800, 900 & 1000 mm	1200 & 1800 MM
	Pay load in Rmt	292.8	219.6	183	109.8	80.52	62.22	54.9	29.28	18.183	15	5
-	2	Э	4	5	9	2	œ	6	10	11	12	13
UNIT PER 100 RMT	00 RMT								(
0.5	1157.56	395.34	527.12	632.55	1054.24	1437.61	1860.43	2108.49	3953.42	6325.46	7717.07	23151.2
-	1255.79	428.89	571.85	686.22	1143.71	1559.6	2018.31	2287.41	4288.9	6862.24	8371.93	25115.8
1.5	1351.95	461.73	615.64	738.77	1231.28	1679.02	2172.85	2462.57	4617.32	7387.7	9013	27039
2	1444.27	493.26	657.68	789.22	1315.36	1793.68	2321.23	2630.73	4932.62	7892.19	9628.47	28885.4
2.5	1539.54	525.8	701.07	841.28	1402.13	1912	2474.35	2804.26	5257.99	8412.79	10263.6	30790.8
e	1630.95	557.02	742.69	891.23	1485.38	2025.52	2621.26	2970.77	5570.18	8912.3	10873	32619
3.5	1721.73	588.02	784.03	940.84	1568.06	2138.26	2767.16	3136.12	5880.23	9408.36	11478.2	34434.6
4	1811.32	618.62	824.83	989.79	1649.65	2249.53	2911.15	3299.31	6186.2	9897.92	12075.47	36226.4
4.5	1899.09	648.6	864.8	1037.75	1729.59	2358.53	3052.22	3459.18	6485.96	10377.54	12660.6	37981.8
5	1987.28	678.72	904.95	1085.95	1809.91	2468.06	3193.96	3619.82	6787.16	10859.45	13248.53	39745.6
9	2163.64	738.95	985.26	1182.32	1970.53	2687.08	3477.4	3941.06	7389.48	11823.17	14424.27	43272.8
7	2337.98	798.49	1064.65	1277.58	2129.31	2903.6	3757.6	4258.62	7984.9	12775.85	15586.53	46759.6
ω	2516.03	859.3	1145.73	1374.88	2291.47	3124.73	4043.76	4582.93	8593	13748.8	16773.53	50320.6
6	2677.47	914.44	1219.25	1463.1	2438.5	3325.22	4303.23	4876.99	9144.36	14630.98	17849.8	53549.4
10	2836.72	968.83	1291.77	1550.12	2583.53	3523	4559.18	5167.07	9688.25	15501.2	18911.47	56734.4
15	3412.08	1165.33	1553.77	1864.52	3107.54	4237.56	5483.9	6215.08	11653.28	18645.25	22747.2	68241.6
20	4199.64	1434.3	1912.4	2294.89	3824.81	52 15.65	6749.66	7649.62	14343.03	22948.85	27997.6	83992.8
25	4893.83	1671.39	2228.52	2674.22	4457.04	6077.78	7865.36	8914.08	16713.9	26742.24	32625.53	97876.6
30	5677.59	1939.07	2585.42	3102.51	5170.85	7051.15	9125.02	10341.69	19390.68	31025.08	37850.6	113551.8
35	5972.83	2039.9	2719.87	3263.84	5439.74	7417.82	9599.53	10879.47	20399.01	32638.42	39818.87	119456.6
40	6683.39	2282.58	3043.44	3652.13	6086.88	8300.29	10741.55	12173.75	22825.79	36521.26	44555.93	133667.8
45	7387.99	2523.22	3364.29	4037.15	6728.59	9175.35	11873.98	13457.18	25232.21	40371.53	49253.27	147759.8
50	8086.39	2761.75	3682.33	4418.79	7364.65	10042.71	12996.45	14729.31	27617.45	44187.92	53909.27	161727.8
60	9497.42	3243.65	4324.87	5189.85	8649.74	11795.11	15264.26	17299.49	32436.54	51898.47	63316.13	189948.4
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		100 mm	125 mm	150 mm	200 mm	250 mm	300 mm	300 & 400 mm	450 & 500 mm	600, 700 & 750 mm	800, 900 & 1000 mm	
	Pay load in Rmt	292.8	219.6	183	109.8	80.52	62.22	54.9	29.28	18.183	15	1
-	2	e	4	5	9	7	œ	6	10	11	12	
UNIT PER 100 RMT	100 RMT									<	ς	
20	10918.09	3728.86	4971.81	5966.17	9943.62	13559.48	17547.56	19887.23	37288.56	59661.69	72787.27	
80	12340.39	4214.61	5619.49	6743.38	11238.97	15325.87	19833.48	22477.94	42146.14	67433.83	82269.27	
06	13755.54	4697.93	6263.91	7516.69	12527.81	17083.38	22107.91	25055.63	46979.3	75166.89	91703.6	
100	14618.35	4992.61	6656.81	7988.17	13313.62	18154.93	23494.62	26627.23	49926.06	79881.69	97455.67	
125	16588.18	5665.36	7553.82	9064.58	15107.63	20601.32	26660.53	30215.26	56653.62	90645.79	110587.87	331763.6
150	19685.05	6723.04	8964.05	10756.86	17928.1	24447.4	31637.82	35856.19	67230.36	107568.58	131233.67	
175	22790.44	7783.62	10378.16	12453.79	20756.32	28304.07	36628.8	41512.64	77836.2	124537.92	151936.27	455808.8
200	25851.19	8828.96	11771.94	14126.33	23543.89	32105.3	41548.04	47087.78	88289.58	141263.33	172341.27	517023.8
250	32172	10987.7	14650.27	17580.33	29300.55	39955.29	51706.85	58601.09	109877.05	175803.28	214480	643440
300	36587.23	12495.64	16660.85	19993.02	33321.7	45438.69	58803.01	66643.41	124956.39	199930.22	243914.87	731744.6
420	50725.85	17324.4	23099.2	27719.04	46198.41	62997.83	81526.6	92396.81	173244.02	277190.44	338172.33	1014517
540	65129.69	22243.75	29658.33	35589.99	59316.66	80886.35	104676.45	118633.32	222437.47	355899.95	434197.93	1302593.8
660	79820.54	27261.11	36348.15	43617.78	72696.3	99131.32	128287.59	145392.6	272611.13	436177.81	532136.93	1596410.8
780	94333.36	32217.68	42956.9	51548.28	85913.81	117155.19	151612.6	171827.61	322176.78	515482.84	628889.07	1886667.2
006	106854.15	36493.9	48658.54	58390.25	97317.08	132705.1	171736.02	194634.15	364939.04	583902.46	712361	2137083
1020	122857.47	41959.52	55946.02	67135.23	111892.05	152580.07	197456.56	223784.1	419595.18	671352.3	819049.8	2457149.4
1140	138063	47152.66	62870.22	75444.26	125740.44	171464.23	221894.89	251480.87	471526.64	754442.62	920420	2761260
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STATEMENT IX

Including loading, unloading and stacking

STONEWARE PIPES

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400 mm	27 m	10		4287.26	4651.07	5007.22	5349.15	5702	6040.56	6376.78	6708.59	7033.67	7360.3	8013.48	8659.19	9318.63	9916.56	10506.37	12637.33	15554.22	18125.3	21028.11	22121.59	24753.3	27362.93	29949.59	35175.63	40437.37
350 mm	43 m	9		2692	2920.44	3144.07	3358.77	3580.33	3792.91	4004.02	4212.37	4416.49	4621.58	5031.72	5437.16	5851.23	6226.67	6597.02	7935.07	9766.6	11381	13203.7	13890.3	15542.77	17181.37	18805.56	22087.02	25390.91
300 mm	66 m	8		1753.88	1902.71	2048.41	2188.29	2332.64	2471.14	2608.68	2744.42	2877.41	3011.03	3278.24	3542.39	3812.17	4056.77	4298.06	5169.82	6363.09	7414.89	8602.41	9049.74	10126.35	11193.92	12252.11	14390.03	16542.56
250 mm	84 m	7		1378.05	1494.99	1609.46	1719.37	1832.79	1941.61	2049.68	2156.33	2260.82	2365.81	2575.76	2783.31	2995.27	3187.46	3377.05	4062	4999.57	5825.99	67 59.04	7110.51	7956.42	8795.23	9626.65	11306.45	12997.73
230 mm	105 m	9		1102.44	1195.99	1287.57	1375.5	1466.23	1553.29	1639.74	1725.07	1808.66	1892.65	2060.61	2226.65	2396.22	2549.97	2701.64	3249.6	3999.66	4660.79	5407.23	5688.41	6365.13	7036.18	7701.32	9045.16	10398.18
200 mm	135 m	5		857.45	930.21	1001.44	1069.83	1140.4	1208.11	1275.36	1341.72	1406.73	1472.06	1602.7	1731.84	1863.73	1983.31	2101.27	2527.47	3110.84	3625.06	4205.62	4424.32	4950.66	5472.59	5989.92	7035.13	8087.47
150 mm	240 m	4		482.32	523.25	563.31	601.78	641.48	679.56	717.39	754.72	791.29	828.03	901.52	974.16	1048.35	1115.61	1181.97	1421.7	1749.85	2039.1	2365.66	2488.68	2784.75	3078.33	3369.33	3957.26	4549.2
100 mm	480 m	е		241.16	261.62	281.66	300.89	320.74	339.78	358.69	377.36	395.64	414.02	450.76	487.08	524.17	557.81	590.98	710.85	874.93	1019.55	1182.83	1244.34	1392.37	1539.16	1684.66	1978.63	2274.6
Cost/trip	Pay Load	2	Rmt	1157.56	1255.79	1351.95	1444.27	1539.54	1630.95	1721.73	1811.32	1899.09	1987.28	2163.64	2337.98	2516.03	2677.47	2836.72	3412.08	4199.64	4893.83	5677.59	5972.83	6683.39	7387.99	8086.39	9497.42	10918.09
Lead in km		1	Unit Per 100 Rmt	0.5	-	1.5	2	2.5	3	3.5	4	4.5	5	9	7	8	6	10	15	20	25	30	35	40	45	50	60	20



YN

V



(28)

Lead in km	Cost/trip	100 mm	150 mm	200 mm	230 mm	250 mm	300 mm	350 mm	400 mm
	Pay Load	480 m	240 m	135 m	105 m	84 m	66 m	43 m	27 m
-	2	с	4	5	9	7	ω	6	10
Unit Per 100 Rmt	Rmt								
80	12340.39	2570.91	5141.83	9141.03	11752.75	14690.94	18697.56	28698.58	45705.15
06	13755.54	2865.74	5731.48	10189.29	13100.51	16375.64	20841.73	31989.63	50946.44
100	14618.35	3045.49	6090.98	10828.41	13922.24	17402.8	22149.02	33996.16	54142.04
125	16588.18	3455.87	6911.74	12287.54	15798.27	19747.83	25133.61	38577.16	61437.7
150	19685.05	4101.05	8202.1	14581.52	18747.67	23434.58	29825.83	45779.19	72907.59
175	22790.44	4748.01	9496.02	16881.81	21705.18	27131.48	34530.97	53001.02	84409.04
200	25851.19	5385.66	10771.33	19149.03	24620.18	30775.23	39168.47	60119.05	95745.15
250	32172	6702.5	13405	23831.11	30640	38300	48745.45	74818.6	119155.56
300	36587.23	7622.34	15244.68	27101.65	34844.98	43556.23	55435.2	85086.58	135508.26
420	50725.85	10567.89	21135.77	37574.7	48310.33	60387.92	76857.35	117967.09	187873.52
540	65129.69	13568.69	27137.37	48244.21	62028.28	77535.35	98681.35	151464.4	241221.07
660	79820.54	16629.28	33258.56	59126.33	76019.56	95024.45	120940.21	185629.16	295631.63
780	94333.36	19652.78	39305.57	69876.56	89841.3	112301.62	142929.33	219379.91	349382.81
006	106854.15	22261.28	44522.56	79151.22	101765.86	127207.32	161900.23	248498.02	395756.11
1020	122857.47	25595.31	51190.61	91005.53	117007.11	146258.89	186147.68	285715.05	455027.67
1140	138063	28763.13	57526.25	102268.89	131488.57	164360.71	209186.36	321076.74	511344.44
						1			



STATEMENT IV

Including loading, unloading and stacking

Lead in km	Cost per trip	Cement pay load 9.00 MT	Steel pay load 9.00 MT	Bulk Asphalt in Bouzer pay load 4.50 MT	M.S.Bar 9.0 MT	Sand 5.7 cum
1	2	3	4	5	6	7
0.50	1157.56	128.62	128.62	257.24	128.62	201.31
1.00	1255.79	139.53	139.53	279.06	139.53	218.40
1.50	1351.95	150.22	150.22	300.43	150.22	235.12
2.00	1444.27	160.47	160.47	320.95	160.47	251.18
2.50	1539.54	171.06	171.06	342.12	171.06	267.75
3.00	1630.95	171.06	171.06	342.12	181.22	283.64
3.50	1721.73	191.30	191.30	382.61	191.30	299.43
4.00	1811.32	201.26	201.26	402.52	201.26	315.01
4.50	1899.09	211.01	211.01	422.02	211.01	330.28
5.00	1987.28	220.81	220.81	441.62	220.81	345.61
6.00	2163.64	240.40	240.40	480.81	240.40	376.29
7.00	2337.98	259.78	259.78	519.55	259.78	406.61
8.00	2516.03	279.56	279.56	559.12	279.56	437.57
9.00	2677.47	297.50	297.50	594.99	297.50	465.65
10.00	2836.72	315.19	315.19	630.38	315.19	493.34
15.00	3412.08	379.12	379.12	758.24	379.12	593.41
20.00	4199.64	466.63	466.63	933.25	466.63	730.37
25.00	4893.83	543.76	543.76	1087.52	543.76	851.10
30.00	5677.59	630.84	630.84	1261.69	630.84	987.41
35.00	5972.83	663.65	663.65	1327.30	663.65	1038.75
40.00	6683.39	742.60	742.60	1485.20	742.60	1162.33
45.00	7387.99	820.89	820.89	1641.78	820.89	1284.87
50.00	8086.39	898.49	898.49	1796.98	898.49	1406.33
60.00	9497.42	1055.27	1055.27	2110.54	1055.27	1651.73
70.00	10918.09	1213.12	1213.12	2426.24	1213.12	1898.80
80.00	12340.39	1371.15	1371.15	2742.31	1371.15	2146.15
90.00	13755.54	1528.39	1528.39	3056.79	1528.39	2392.27
100.00	14618.35	1624.26	1624.26	3248.52	1624.26	2542.32
125.00	16588.18	1843.13	1843.13	3686.26	1843.13	2884.90
150.00	19685.05	2187.23	2187.23	4374.46	2187.23	3423.49
175.00	22790.44	2532.27	2532.27	5064.54	2532.27	3963.55
200.00	25851.19	2872.35	2872.35	5744.71	2872.35	4495.86
250.00	32172	3574.67	3574.67	7149.33	3574.67	5595.13
300.00	36587.23	4065.25	4065.25	8130.50	4065.25	6363.00
420.00	50725.85	5636.21	5636.21	11272.41	5636.21	8821.89
540.00	65129.69	7236.63	7236.63	14473.26	7236.63	11326.90
660.00	79820.54	8868.95	8868.95	17737.90	8868.95	13881.83
780.00	94333.36	10481.48	10481.48	20962.97	10481.48	16405.80
900.00	106854.15	11872.68	11872.68	23745.37	11872.68	18583.33
1020.00	122857.47	13650.83	13650.83	27301.66	13650.83	21366.52
1140.00	138063	15340.33	15340.33	30680.67	15340.33	24010.96



STATEMENT V

Excluding loading, unloading and stacking

Lead in km	Cost per trip	Cement pay load 9.00 MT	Steel pay load 9.00 MT	Bulk Asphalt in Bouzer pay load 4.50 MT
1	2	3	4	5
0.5	541.78	60.20	60.20	120.40
1	606.24	67.36	67.36	134.72
1.5	669.77	74.42	74.42	148.84
2	731.56	81.28	81.28	162.57
2.5	794.65	88.29	88.29	176.59
3	856.06	88.29	88.29	176.59
3.5	917.14	101.90	101.90	203.81
4	977.68	108.63	108.63	217.26
4.5	1037.46	115.27	115.27	230.55
5	1097.42	121.94	121.94	243.87
6	1217.25	135.25	135.25	270.50
7	1336.17	148.46	148.46	296.93
8	1456.77	161.86	161.86	323.73
9	1569.96	174.44	174.44	348.88
10	1682.13	186.90	186.90	373.81
15	2143.3	238.14	238.14	476.29
20	2700.17	300.02	300.02	600.04
25	3164.11	351.57	351.57	703.14
30	3712.34	412.48	412.48	824.96
35	4048.52	449.84	449.84	899.67
40	4564.89	507.21	507.21	1014.42
45	5078.81	564.31	564.31	1128.62
50	5589.98	621.11	621.11	1242.22
55	6114.05	679.34	679.34	1358.68
65	7139.27	793.25	793.25	1586.50
75	8176.13	908.46	908.46	1816.92
85	9199.67	1022.19	1022.19	2044.37
95	9531.06	1059.01	1059.01	2118.01
105	10485.48	1165.05	1165.05	2330.11
130	12865.92	1429.55	1429.55	2859.09
155	15285.64	1698.40	1698.40	3396.81
180	17658.85	1962.09	1962.09	3924.19
230	22440.75	2493.42	2493.42	4986.83
280	26485.67	2942.85	2942.85	5885.70
400	37641.26	4182.36	4182.36	8364.72
520	48957.24	5439.69	5439.69	10879.39
640	60163.15	6684.79	6684.79	13369.59
760	71264.74	7918.30	7918.30	15836.61
880	82395.3	9155.03	9155.03	18310.07
1000	93185.44	10353.94	10353.94	20707.88
1120	104469.19	11607.69	11607.69	23215.38



STATEMENT 'E' Including loading, unloading & stacking.

Lead in Cost per km <u>trip.</u> Pay Load.			Asbestos cen	nent pipes	
	Pay Load.	50mm dia.	80mm dia.	100mm dia.	150mm dia
	м	960.00	576.00	512.00	288.00
1	2	3	4	5	6
	•	l	Jnit : Per 100 RM	Т.	•
0.50	1157.56	120.58	200.97	226.09	401.93
1.00	1255.79	130.81	218.02	245.27	436.04
1.50	1351.95	140.83	234.71	264.05	469.43
2.00	1444.27	150.44	250.74	282.08	501.48
2.50	1539.54	160.37	267.28	300.69	534.56
3.00	1630.95	169.89	283.15	318.54	566.30
3.50	1721.73	179.35	298.91	336.28	597.82
4.00	1811.32	188.68	314.47	353.77	628.93
4.50	1899.09	197.82	329.70	370.92	659.41
5.00	1987.28	207.01	345.01	388.14	690.03
6.00	2163.64	225.38	375.63	422.59	751.26
7.00	2337.98	243.54	405.90	456.64	811.80
8.00	2516.03	262.09	436.81	491.41	873.62
9.00	2677.47	278.90	464.84	522.94	929.68
10.00	2836.72	295.49	492.49	554.05	984.97
15.00	3412.08	355.43	592.38	666.42	1184.75
20.00	4199.64	437.46	729.10	820.24	1458.21
25.00	4893.83	509.77	849.62	955.83	1699.25
30.00	5677.59	591.42	985.69	1108.90	1971.39
35.00	5972.83	622.17	1036.95	1166.57	2073.90
40.00	6683.39	696.19	1160.31	1305.35	2320.62
45.00	7387.99	769.58	1282.64	1442.97	2565.27
50.00	8086.39	842.33	1403.89	1579.37	2807.77
60.00	9497.42	989.31	1648.86	1854.96	3297.72
70.00	10918.09	1137.30	1895.50	2132.44	3791.00
80.00	12340.39	1285.46	2142.43	2410.23	4284.86
90.00	13755.54	1432.87	2388.11	2686.63	4776.23
100.00	14618.35	1522.74	2537.91	2855.15	5075.82
125.00	16588.18	1727.94	2879.89	3239.88	5759.78
150.00	19685.05	2050.53	3417.54	3844.74	6835.09
175.00	22790.44	2374.00	3956.67	4451.26	7913.35
200.00	25851.19	2692.83	4488.05	5049.06	8976.11
250.00	32172.00	3351.25	5585.42	6283.59	11170.83
300.00	36587.23	3811.17	6351.95	7145.94	12703.90
420.00	50725.85	5283.94	8806.57	9907.39	17613.14
540.00	65129.69	6784.34	11307.24	12720.64	22614.48
660.00	79820.54	8314.64	13857.73	15589.95	27715.47
780.00	94333.36	9826.39	16377.32	18424.48	32754.64
900.00	106854.15	11130.64	18551.07	20869.95	37102.14
1020.00	122857.47	12797.65	21329.42	23995.60	42658.84
1140.00	138063.00	14381.56	23969.27	26965.43	47938.54

STATEMENT SHOWING STANDARD WEIGHT OF PIPES TO BE FOLLOWED FOR CARTING OF VARIOUS DIAMETERS AND TYPES OF PIPES



Diameter of Pipe in mm	Class of Pipes	and Its Weight in Kg. pe	er Metre Length
	LA	A	В
80	16.00	17.38	18.46
100	19.82	21.82	23.27
125	25.82	28.18	30.36
150	32.10	35.27	38.00
200	47.09	51.09	55.27
250	63.45	69.09	74.73
300	81.82	89.45	96.91
350	103.09	111.82	121.27
400	125.45	137.09	140.00
450	151.27	166.10	179.27
500	177.09	192.91	208.73
600	236.00	257.64	335.01
700	304.55	335.73	359.45
750	341.09	372.91	404.55
800	381.00	416.00	450.00
900	465.09	507.45	549.80
1000	558.73	610.36	659.64

II) M.S. Pipes

<u>Note</u>: Weight of M.S. Pipes is to be computed by considering density of steel as 7850 Kg./Cum considering the diameter and thickness of plate used for manufacturing of M.S. Pipes.

III) A.C. Pressure Pipes (IS0-160)	III)	A.C. Pressure	Pipes	(IS0-160)	
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Diameter of Pipe in mm	Clas	s of pipes and its weigh	t in Kg. per meter lengt	h
	Class - 5	Class – 10	Class - 15	Class - 20
80	6.00	6.20	6.40	6.80
100	7.60	7.70	8.20	10.30
125	9.57	9.80	11.00	13.30
150	11.87	12.20	15.30	19.00
200	15.57	19.30	25.60	32.70
250	19.25	25.20	32.70	41.50
300	24.97	32.30	45.10	58.10
350	39.77	47.52	55.27	71.42
400	49.20	60.20	71.36	93.10
450	56.92	70.27	83.63	111.37
500	72.84	89.54	104.25	136.52
600	102.50	137.32	148.35	193.16

IV) D.I. K-9 PIPES INCLUDING WEIGHT OF MORTAR LINING PER M LENGTH

(1) Barrel Mass as per IS-8329-1994 (2) Socket Mass as per IS-8329-1994 (3) Cement Mortar Lining Wt as per ISO-4179-1985 Weight / M Length of D L K-9 Pipes of minal Diamotor



		4 M	5 M	5.50 M	6 M
80 mm wt. of DI pipe / M		13.00	13.00	12.91	12.67
Weight Mortar / M		1.56	1.56	1.56	1.56
Tota	l Weight / M	14.56	14.56	14.47	14.23
100 mm wt. of DI pipe / M		16.25	16.00	16.00	15.86
Veight Mortar / M		1.93	1.93	1.93	1.93
Tota	l Weight / M	18.18	17.93	17.93	17.79
125 mm wt. of DI pipe / M		20.50	20.00	20.00	19.83
Veight Mortar / M		2.42	2.42	2.42	2.42
Tota	I Weight / M	22.92	22.42	22.42	22.25
150 mm wt. of DI pipe / M		24.75	24.20	24.18	24.00
Veight Mortar / M		2.90	2.90	2.90	2.90
Tota	l Weight / M	27.65	27.10	27.08	26.90
200 mm wt. of DI pipe / M		33.25	32.60	32.54	32.33
Veight Mortar / M		3.88	3.88	3.88	3.88
Tota	I Weight / M	37.13	36.48	36.42	36.21
250 mm wt. of DI pipe / M		43.75	43.00	42.73	42.50
Neight Mortar / M		4.84	4.84	4.84	4.84
Tota	I Weight / M	48.59	47.84	47.57	47.34
300 mm wt. of DI pipe / M		55.50	54.60	54.18	53.83
Weight Mortar / M		5.80	5.80	5.80	5.80
Tota	I Weight / M	61.30	60.40	59.98	59.63
350 mm wt. of DI pipe / M	_	69.25	68.00	67.45	67.17
Weight Mortar / M		12.12	12.12	12.12	12.12
Tota	I Weight / M	81.37	80.12	79.57	79.29
400 mm wt. of DI pipe / M	-	82.75	81.40	80.91	80.33
Weight Mortar / M		13.82	13.82	13.82	13.82
Tota	I Weight / M	96.57	95.22	94.73	94.15
150 mm wt. of DI pipe / M	_	98.75	97.00	96.36	95.83
Neight Mortar / M		15.53	15.53	15.53	15.53
Tota	I Weight / M	114.28	112.53	111.89	111.36
500 mm wt. of DI pipe / M		115.00	112.80	112.00	111.50
Weight Mortar / M	1	17.26	17.26	17.26	17.26
Tota	I Weight / M	132.26	130.06	129.26	128.76
600 mm wt. of DI pipe / M		152.00	149.00	147.82	147.00
Weight Mortar / M		20.75	20.75	20.75	20.75
Tota	I Weight / M	172.75	169.73	168.57	167.75
700 mm wt. of DI pipe / M	<i>p</i>	193.75	189.80	188.36	187.70
Weight Mortar / M		29.45	29.45	29.45	29.45
Tota	I Weight / M	223.20	219.25	217.81	211.15
750 mm wt. of DI pipe / M		217.50	213.00	211.45	210.00
Weight Mortar / M		31.56	31.56	31.56	31.56
	I Weight / M	249.06	244.56	243.01	241.56
300 mm wt. of DI pipe / M	-	240.75	235.80	233.82	232.33
Neight Mortar / M		33.69	33.69	33.69	33.69
-	l Weight / M	274.44	269.49	267.51	266.02
900 mm wt. of DI pipe / M		292.75	286.20	283.82	281.83
Weight Mortar / M		37.89	37.89	37.89	37.89
•	l Weight / M	330.64	324.09	321.71	319.72
1000 mm wt. of DI pipe / M		349.75	341.60	338.55	336.17
Weight Mortar / M		42.08	42.08	42.08	42.08
•	l Weight / M	391.83	383.68	380.63	378.25

These weights are as per the circular issued by Superintending Engineer (HQ) vide Lt No. MJP / 10 - 2000 / SE (H/Q) / DI / 15 / AMDT / Stores / 255 dt. 26.06.2000 Note :



V) P.V.C. Pipes (IS : 4985-1988)

·) · · · · · · · · · · · · · · · · · ·	4000-1000 /		
Diameter of	Class of Pi	pes and its weight in Kg. per mete	er length
Pipe in mm	4.00	6.00 Kg./Sq.cm.	10.00
63	0.47	0.67	1.01
75	0.67	0.93	1.44
90	0.92	1.33	2.05
110	1.32	1.89	3.08
140	2.13	3.10	4.99
160	2.78	3.92	6.56
180	3.56	5.07	8.10
200	4.26	7.00	10.20
225	5.48	7.84	12.56
250	6.63	10.19	15.31
280	8.34	12.16	19.80
315	10.55	15.37	25.00

VI) R.C.C. Pipes

Diameter of		Class of P	ipes and its weigh	it in Kg. per me	ter length	
Pipe in mm	P - 1	P – 2	P - 3	NP - 2	NP - 3	NP - 4
100	23.56	23.56	23.56	21.20	21.20	21.20
150	33.00	33.00	33.00	29.40	29.40	29.40
200	42.10	42.10	42.10	37.90	37.90	37.90
250	51.84	63.40	75.18	57.10	67.60	77.20
300	74.64	102.50	117.10	92.25	105.40	119.10
350	92.28	134.30	168.10	120.80	151.30	170.20
400	104.16	169.60	208.10	152.60	187.30	212.40
450	127.92	188.70	235.23	169.90	211.70	240.80
500	141.36	229.90	261.37	206.90	235.23	270.50
600	192.96	305.70	313.64	275.10	282.27	320.20
700	225.59	325.80	365.92	293.20	329.32	370.90
800	257.82	345.19	418.19	310.60	376.30	425.40
900	290.00	389.58	470.47	350.60	423.00	482.30
1000	322.28	443.98	510.00	399.80	459.00	531.40

VII) P.S.C. Pipes of all classes and B.W.S.C. Pipes of all classes

Diameter of Pipe in	Weight of pipe per meter length for	Diameter of Pipe in mm	Weight of pipe per meter
350	197.50	1100	947.50
400	240.00	1200	1115.00
450	257.50	1300	1190.00
500	292.50	1400	1370.00
600	375.00	1500	1560.00
700	432.50	1600	1767.50
800	582.50	1700	1987.50
900	705.00	1800	2205.50
1000	825.00		



SECTION - D CEMENT CONSUMPTION

Sr. No	Description	Unit	CONSU	MPTION
	STANDARD CEMENT CONSUMPTION TO BE FOLLOWED FOR VARIOUS ITEMS OF WORK			
Α	P.C.C. / R.C.C. Works			
1	1 : 1% : 1 (M-300) with finishing in CM 1:3 proportion	Cum	9.20	bags
2	1: 1: 2 (M-250) with finishing in CM 1:3 proportion	Cum	8.50	bags
3	1: 1% : 3 (M-200) with finishing in CM 1:3 proportion	Cum	6.90	bags
4	1: 1% : 3 (M-200) without finishing	Cum	6.80	bags
5	1:2:4 (M-150) with finishing in CM 1:3 proportion	Cum	5.90	bags
6	1 : 2 : 4 (M-150) without finishing	Cum	5.80	bags
В	Brick Masonry Works		$\sim D$	<
1	BB Masonry - IInd sort in CM 1:6 proportion	Cum	1.44	bags
2	BB Masonry - IInd sort in CM 1:5 proportion	Cum	1.62	bags
3	BB Masonry - IInd sort in CM 1:4 proportion	Cum	2.30	bags
4	Half brick walls in CM 1:4 proportion	Cum	0.22	bags
С	Stone Masonry Works			
1	U.C.R. Masonry - IInd sort in CM 1:6 proportion	Cum	1.77	bags
2	U.C.R. Masonry - IInd sort in CM 1:4 proportion	Cum	2.65	bags
3	Random Rubble Masonry - IInd sort in CM 1:6 proportion	Cum	1.77	bags
4	Random Rubble Masonry - IInd sort in CM 1:4 proportion	Cum	2.65	bags
5	C.R. Masonry - IInd sort in CM 1:4 proportion	Cum	2.65	bags
6	C.R. Masonry - IInd sort in CM 1:6 proportion	Cum	1.50	bags
D	Waterproofing Works			
1	Damp-proof course 50 mm thick in 1:2:4 proportion with bitumen layer W.P. compound.	Sqm	0.35	bags
2	Integral finishing to newly laid slab in CM 1:3 proportion with W.P. compound.	Sqm	0.06	bags
3	Waterproofing treatment over old slab with W.P. cement slurry as tack coat 12 mm thick, W.P. plaster in CM 1:3 proportion, brickbat coba average 9.50 cm thick in CM 1:6 proportion and 20 mm thick W.P. cement plaster over it in CM 1:3 proportion and finishing with cement slurry with novelling.	Sqm.	0.37	bags
Е	Plastering and Pointing Works			
1	12 mm thick plaster			
	a) CM 1:2 proportion	Sqm	0.16	bags
	b) CM 1:3 proportion	Sqm	0.12	bags
	c) CM 1:4 proportion	Sqm	0.10	bags

Sr. No	Description	Unit	CONSU	MPTION
2	20 mm thick plaster			
	a) CM 1:2 proportion	Sqm	0.27	bags
	b) CM 1:3 proportion	Sqm	0.19	bags
	c) CM 1:4 proportion	Sqm	0.15	bags
3	25 mm thick plaster			
	a) CM 1:2 proportion	Sqm	0.34	bags
	b) CM 1:3 proportion	Sqm	0.25	bags
	c) CM 1:4 proportion	Sqm	0.19	bags
4	Cement pointing in CM 1:3 proportion	Sqm	0.03	bags
5	Tuck cement pointing in CM 1:3 proportion	Sqm	0.05	bags
6	Sand faced plaster in CM 1:4 proportion including base coat 15 mm thick in CM 1:4 proportion with W.P. compound.	Sqm	0.22	bags
7	Rough cast cement plaster in CM 1:4 proportion in two coats.	Sqm	0.22	bags
F	Flooring Works			
1	I.P.S. flooring - 40 mm thick	Sqm	0.30	bags
2	I.P.S. flooring - 50 mm thick	Sqm	0.37	bags
3	Rough Shahabad - any other similar flooring in CM 1:4 proportion bedding	Sqm	0.15	bags
4	All types of cement / kadappa / polished / mosaic tiles flooring or skirting / dado set on CM 1:4 proportion bedding	Sqm	0.18	bags
5	Glazed / ceramic tiles flooring or skirting / dado fixed with plain cement slurry	Sqm	0.22	bags



SECTION - E

EXCAVATION

			_			
No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.)) 2024-25
			Complete	Labour	Complete	Labour
1	Excavation for foundation / pipe trenches in		•			
	earth, soils of all types, sand, gravel and					
	soft murum, including removing the					
	excavated material upto a distance of 50					
	metres and lifts as below, stacking and					
	spreading as directed, normal dewatering,					
	preparing the bed for foundation and					
	excluding backfilling, etc. complete. (Bd-A-					
	1/259)					
	Lift 0 to 1.5 M	Cum	165	162		
2	Excavation for foundation / pipe trenches in	Oum	100	102		ii.
2	hard <u>murum</u> including removing the				nv	
	excavated material upto a distance of 50 M					
	and lifts as below, stacking and spreading				. //	
	as directed by Engineer-in-charge, normal			01	P V	
	dewatering, preparing the bed for			10		
	foundation and excluding backfilling, etc.		0			
	complete. (Bd-A-2/259)					
	Lift 0 to 1.5 M	Cum	187	182		
3		Cum	107	102		
3	Excavation for foundation / pipe trenches in					
	hard murum and boulders, W.B.M. road					
	including removing the excavated material					
	upto a distance of 50 M beyond the area		× .			
	and lifts as below, stacking and spreading					
	as directed by Engineer-in-charge, normal					
	dewatering, preparing the bed for					
	foundation and excluding backfilling, etc.					
	complete. (Bd-A-3/259) Lift 0 to 1.5 M	Cum	211	202		
4	Add for every <u>additional lift</u> of <u>1.5 M</u>			202		
-	beyond initial lift of 1.5 M for Item Nos. 1 to	Cum	15	15		
	3					
5	Excavation for foundation / pipe trenches in					
	<u>soft</u> rock and old cement and lime					
	masonry foundation asphalt road					
	including removing the excavated material					
	upto a distance of 50 M beyond the area					
	and lifts as below, stacking as directed by					
	Engineer-in-charge, normal dewatering,					
	preparing the bed for foundation and					
	excluding backfilling, etc. complete. (Bd-A-					
	4/259)					
	Lift 0 to 1.5 M	Cum	629	562		

No.	Description	Unit	Data /Da	1 2022 24	Rate (Rs.	2024 25
INU.	Description	Unit	Rale (RS.) 2023-24	Rale (RS.	/ 2024-23
			Complete	Labour	Complete	Labour
6	Excavation for foundation / pipe trenches in <u>hard</u> <u>rock</u> <u>by</u> <u>controlled</u> <u>blasting</u> ,					
	including trimming and levelling the bed by chiselling where necessary and removing					
	the excavated material and stacking it in measurable heaps within a distance of 50					
	metres from the area and lifts as below, normal dewatering, excluding backfilling,					
	etc. complete. (Bd-A-5/259)		0.0.1			
7	Lift 0 to 1.5 M	Cum	831	704		×
7	Excavation for foundation / pipe trenches in hard rock and concrete road by chiselling, wedging, line drilling by				n,	Ť.,
	mechanical means or by all means other than blasting including trimming and levelling the bed, removing the excavated			3	, V	
	material upto a distance of 50 metres beyond the area and lifts as below, stacking as directed by Engineer-in-charge, normal		~	レ		
	dewatering, excluding backfilling, etc. complete by all means. (Bd-A-6/259)	C	\mathbf{O}	~		
	Lift 0 to 1.5 M	Cum	1119	1097		
8	Excavation in <u>laterite</u> <u>rock</u> <u>masses</u> <u>mechanically</u> , including lift upto 1.5 M including trimming and levelling the bed removing the excavated material upto a distance of 50 metres beyond the area and lift as below stacking by as directed by Engineer-in-charge, normal dewatering excluding backfilling , etc. complete.	1				
	Lift 0 to 1.5 M	Cum	1321			
8	Excavation for foundation / pipe trenches in <u>slush muddy / marshy / slushy / soil</u> <u>including use of poclain.</u> labour for dewatering during execution including removing the excavated material upto a distance of 50 metres and lifts as below,					
	stacking and spreading as directed, preparing the bed by cleaning the mud, labour required for execution for shuttering					
	item but excluding backfilling, etc. complete. Providing and fixing shuttering shall be paid separately.					
	Lift 0 to 1.5 M	Cum	407	243		
9	Add for every <u>additional lift beyond</u> initial lift of 1.5 M for Item Nos. 5 to 10	Cum	28	28		

No	Description	1154	Date (D-	1 2022 24	Date /D-	0004.05
No.	Description	Unit) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
	HEAD WORKS					
10	Excavation in general in soft material					
	<u>comprising</u> <u>of</u> <u>soft</u> <u>soil</u> , <u>soft</u> <u>murum</u> ,					
	sand, hard murum with boulders in wet					
	or dry condition for Head Works i.e. Intake Well, Connecting Pipe, Jack Well,					
	Pump House, Supply Well, etc. for lift 0 to					
	1.5M and lead of 150 M including					
	barricading, guarding, disposing off				0.0	
	surplus excavated stuff within a radius of					
	0.5 km. as directed by Engineer-in-charge,				$\sim V$	
	etc. complete excluding refilling.				1.1.1	
a)	For Head Works on <u>river</u> <u>or</u> <u>dam</u>	C1	E 4 0	404		
,	submergence for initial lift of 0 to 1.5 M	Cum	510	491	r V	
b)	For Head Works on nalla or any other site	Cum	334	329		
	of GSDA for initial lift of 0 to 1.5 M	- Call	001	020		
c)	Add for each <u>additional lift of 1.5 M</u>	Cum	30	25		
11	beyond initial lift 1.5 M Excavation in general in <u>hard</u> <u>material</u>		\frown	\sim		
	comprising of soft rock, hard rock,			V		
	Manjara rock, etc. by blasting /	0				
	<u>controlled blasting, chiselling</u> as required	1	1			
	in wet or dry condition for Head Works i.e.					
	Intake Well, Connecting Pipe, Jack Well,		1971 - C			
	Pump House, Supply Well, etc. for lift 0 to					
	1.5 M and lead of 150 M including					
	barricading, guarding, disposing off surplus					
	excavated stuff within a radius of 0.5 km. as					
	directed by Engineer-in-charge, excluding					
a)	For Head Works on river or dam	Cum	1118	899		
	submergence for initial lift of 0 to 1.5 M	Cum	1110	099		
b)	For Head Works <u>on nalla or any other site</u>	Cum	778	589		
0)	of GSDA for initial lift of 0 to 1.5 M					
c)	Add for each additional lift of 1.5 M beyond initial lift 1.5 M	Cum	31	26		
12	Excavation in general in soft material					
	comprising of soft soil, soft murum,					
	sand, hard murum with boulders in wet					
	or dry condition for Head Works and allied					
	works by well sinking process for average					
	depth of 12 M and lead of 150 M including					
	shoring, barricading, guarding, refilling,					
	disposing off surplus excavated stuff as					
	directed by Engineer-in-charge, etc.					
	complete.					

No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
a)	Diameter upto and including 3 M	Cum	1016	965		
b)	Diameter more than 3 M	Cum	853	801		
13	Desilting the Supply Well, Intake Well / Head Works, Sump of water supply / sewerage works etc. in wet or dry condition including <u>lifts upto 9 M</u> and lead upto 150 M as required beyond the work site, stacking, spreading, including necessary guarding, etc. complete, as directed by Engineer-in-charge.	Cum	781	739	1	
	Add for each <u>additional</u> <u>lift</u> <u>of</u> <u>1.5</u> <u>M</u> beyond initial lift 9.0 M	Cum	26	25	nv	
14	Dewatering the excavated trenches and pools of water in the building trenches / pipeline trenches, well works by using pumps and other devices including disposing off water to safe distance as directed by Engineer-in-charge (including cost of machinery, labour, fuel), etc. complete. (Bd-A-9/261)	HP/ Hr.	89	15	. /	
	(i) The Contractor at his request may be		\sim			
	allowed to start construction of masonry steining so as not to allow silting of well in oncoming monsoon and while paying masonry, <u>25% amount shall be withheld</u> and released only when excavation to the full depth is completed.					
	(ii) Dewatering : Total dewatering charges are to be proposed in the tender as lumpsum amount and 75% is payable for excavation and 25% is payable for construction of well / gallery. Out of 75% excavation, break-up shall be as under 25% for last 1 M depth.					
	20% for 2 M depth which is just above last 1 M depth.					
	15% for 2 M depth which is just above last 3 M depth.					
	15% for the rest of depth from water table level.					
	The above conditions will restrict the tendencies of agencies to avoid deepening of wells, etc. to the required depth.					
15	Refilling the trenches with available <u>excavated stuff</u> with soft material first over pipeline and then hard material in 15 cm layers with all leads and lifts including consolidation, surcharging, etc. complete.	Cum	92	89		

No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
16	Filling in plinth and floors <u>murum bedding</u> in trenches with <u>approved murum from</u> <u>excavated materials</u> from foundation in 15 cm to 20 cm layers including watering and compaction, etc. complete. (Bd-A-10/263)	Cum	92	89		
17	Filling in plinth and floors / trenches with <u>contractor's murum</u> for bedding in 15 cm to 20 cm layers including watering and compaction, etc. complete. (Bd-A-11/263)	Cum	912	145	0	ĸ
18	Providing dry trap/ granite/ quartzite/ gneiss, <u>rubble stone soling</u> in 15 cm to 20 cm thick layers including hand packing and compacting, etc. complete. (Bd-A-12/264)	Cum	1316	386	V	Ť
19	Providing and filling in <u>sand</u> <u>boxing</u> in pipeline or for foundation with sand of approved quality including watering and compaction, etc. complete. (Bd-A-13/264)	Cum	1227	201		
20	Open timbering in trenches of depth more than 1.5 M for shoring and strutting including use of and waste of all necessary timber works including walling, strutts, open polling boards / horizontal sheeting, runners, etc. as may be necessary and fixing and removal complete. (Measurements to be taken of the face area timbered) (N.B.O. Item No. 4-15, P.No. 59)	- 1				
	a) Lift 0 to 1.5 M for non-water logged area	Sqm	212	9		
	Additional per Sqm for further lifts of 1.5 M each	Sqm	39	22		
	b) Lift 0 to 1.5 for water logged area	Sqm	225	20		
	Additional per Sqm for further lifts of 1.5 M each	Sqm	32	18		
	Note : For the trenches with more than 1.5 M depth, shoring if required from GL is to be done and is payable from GL.					

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No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)) 2024-25
			Complete	Labour	Complete	Labour
	Exavation Items for Balancing Tank					
21	Excavation in all kinds of soils, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition tor Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and dressing the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling etc. complete. with lead upto 1 km and all lifts as directed.			0.4	2	ς.
	Lift 0 to 1.50 M	Cum	102			
22	Excavation in all kinds of soils, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition tor Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and dressing the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling etc. complete. with lead upto 1 km and all lifts as directed.	C	Ċ			
	Lift 0 to 1.5 M	Cum	120			
23	Excavation in all kinds of <i>soft</i> rock, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition for Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and dressing the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling etc. complete. with lead upto 1 km and all lifts as directed.					
	Lift 0 to 1.5 M		156			

No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
24	Excavation in all kinds of hard rock of all toughness by ordinary blasting method, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition for Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and dressing the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling etc. complete. with lead upto 1 km and all lifts as directed.			0	2	×
	Lift 0 to 1.5 M	Cum	625			
25	Excavation in all kinds of hard rock of all toughness by controlled ^{blastin} ₉ methods, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition for Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and d essing the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling etc. complete. with lead upto 1 km and all lifts as directed.		Ċ			
26	Lift 0 to 1.5 M Excavation in all kinds of hard rock of all toughness by breaker, including boulders upto 0.6 m dia.(0.113 cum) in wet or dry condition for Balancing tank including removing, placing the excavated material neatly in dump area or for formation stacking and spreading, and disposing off surplus excavated stuff as directed by engineer in charge, normal dewatering, prepairing and dressin ₉ the bed and side to required level and profile for foundation etc. including cost of all materials, machinery, labour, excluding backfilling	Cum	781			
	etc. complete. with lead upto 1 km and all lifts as directed.					

No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		- Hanne
			Complete	Labour	Complete	Labour	
27	Providing Hearting embankment using selected impervious material from approved borrow areas (Private land- contractors own material) in layesr including cost of all materials , machinery , labour, all other operation such as collection of soil, spreading soil in layer of specified thickness , sorting out , breaking clods , levelling , sectioning edges sides , waering ,compacting each layer to density control of not less than 95% of proctor density using vibretary compactor including cost of water etc. complete with lead upto 1 km for water and all lifts as directed (Specifications as per "sections Em"				2		
	Lift 0 to 1.5 M	Cum	205				



SECTION - F IRON & STRUCTURAL STEEL WORK

r. No	. Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.)	2024-25
			Complete	Labour	Complete	Labour
1	Providing and fixing <u>mild steel grill</u> work for windows/ ventilators of 20 Kg/Sqm. as per drawings including necessary welding and painting with one coat of anticorrosive paint and two coats of oil painting, etc. complete. (Bd-U-1/537)	Sqm	2274	178		
2	Providing and fixing <u>mild</u> <u>steel</u> <u>grill</u> <u>railing</u> of 20 Kg/Sqm with teak wood hand railing, still and newel posts for staircase and including fabricating, fixtures, erecting, painting the grill work with approved oil paint and polishing the hand rail and newel posts with French polish two coats, etc. complete. (Bd-U- 2/537)	Sqm	3427	452	2	
3	Providing <u>structural steel work in</u> <u>rolled stanchions fixed with</u> <u>connecting plates or angle cleats</u> as in main and cross beams, hip and jack rafters, purlins connecting to truss members and like as per detailed designs and drawings or as directed by Engineer- in-charge including cutting, fabricating, hoisting, erecting, fixing in position, making riveted / bolted / welded connections and one coat of anticorrosive paint and over it two coats of oil painting, etc. complete. (Bd-C-3/275)	МТ	85543	11563		
4	Providing structural steel work in single stanchions composed of RSJ, channel, etc. with caps, bases, mild steel plates, angles, brackets, cleats, gusset plates, anchor bolts, etc. as per detailed design and drawing or as directed by Engineerin- charge including cutting, fabrication, hoisting, erecting, fixing in position, making riveted / bolted / welded connections and one coat of anticorrosive paint and over it two coats of oil painting, etc. complete. (Bd-C-6/277)	MT	84020	10818		

			-		•	1
Sr. No	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.)	2024-25
			Complete	Labour	Complete	Labour
5	Providing <u>structural steel work in</u> <u>rolled sections like joists, channels,</u> <u>angles, tees</u> , etc. as per detailed designs and drawings including fixing in position without connecting plates, braces, etc. and one coat of anticorrosive paint and over it two coats of oil painting of approved quality and shade, etc. complete. (Bd-C-2/275)	МТ	89542	12283		
6	Providing <u>structural</u> <u>steel</u> <u>work</u> <u>in</u> <u>trusses</u> , <u>other</u> <u>similar</u> <u>trussed</u> <u>purlins</u> <u>and members</u> <u>with</u> <u>all</u> <u>bracing</u> , <u>gusset</u> <u>plates</u> , etc. as per detailed design and drawing or as directed by Engineer-in- charge including cutting, fabricating, hoisting, erecting and fixing in position, making riveted / bolted / welded connections and one coat of anticorrosive paint and over it two coats of oil painting, etc. complete. (Bd-C-8/278)	МТ	114390	28375		



SECTION - G PLAIN, REINFORCED AND READY MIX CONCRETE

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25		
SI. NO.	Description	onit				1 Con	
			Complete	Labour	Complete	Labour	
1	Providing and laying in situ Cement Concrete M-15 of trap/ granite / quartzite / gneiss metal for foundation and bedding including bailing out water, form work, compaction, curing, etc. complete. (Cement 5.90 bags / cum)						
	Spec. No Bd E /1 Page No. 287 and B- 7, Page No. 38						
	a) In PCC M-100	Cum	5478	1660	1		
	b) In PCC M-150	Cum	5881	1640			
2	Providing and laying in situ Cement Concrete of trap/ granite / quartzite / gneiss metal <u>for RCC work in</u> <u>foundation like raft, grillage, strip</u> <u>foundation and footing of RCC</u> <u>columns</u> and steel stanchions including normal dewatering, form work, compaction, finishing and curing, etc. complete. (By weigh batching and mix design for M250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor			3	V		
	reinforcement) a) In RCC M-150	0	7064	4074			
	b) In RCC M-200	Cum	7264	1874			
	c) In RCC M-200	Cum	7318	1861			
	d) In RCC M-200	Cum	7927	1862			
0	7	Cum	8193	1792			
3	Providing and casting in situ Cement Concrete of trap/ granite / quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineerin- charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement)						
	For all types of Columns						
	a) In RCC M-150	Cum	8223	3243			
	b) In RCC M-200	Cum	8815	1768			
	c) In RCC M-250	Cum	9404	1789			

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25 1
0	Decemption	onit	Complete	Labour	Complete	Labour
	d) In BCC M-300	Cum	-		Complete	Labour
4	d) In RCC M-300 Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor	Cum	9651	1989	2	
	reinforcement) For Beams / Braces / Lintels	-	\cap	*		
	a) In RCC M-150					
	,	Cum	8297	1493		
	b) In RCC M-200	Cum	8674	1684		
	c) In RCC M-250	Cum	9240	1689		
	d) In RCC M-300	Cum	9486	1689		
5	Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for <u>RCC works</u> as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement)					
	<u>Slabs / Landings / Vertical Walls /</u> Waist Slabs / Steps for Staircase					
	a) In RCC M-150	Cum	8851	1602		
	b) In RCC M-200	Cum	9313	1670		
	c) In RCC M-250 d) In RCC M-300	Cum	9910	1673		

Sr. No.	Description	Unit	Rate (Rs.)	2022 24	Rate (Rs.	2024 2 1
5r. NO.	Description	Unit	Rate (RS.)	2023-24	Rate (RS.) 2024-20
			Complete	Labour	Complete	Labour
6	Providing and casting in situ C.C. of trap / granite/ quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with C.M. 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing, etc. complete. (By weigh batching and mix design for M-250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement)		2	3	2	
	Chajjas / Parapets / Curtain Walls /Partition Walls / Pardies	0	0			
	a) In RCC M-150	Cum	8971	1642		
	b) In RCC M-200	Cum	9273	1668		
	c) In RCC M-250	Cum	9919	1687		
	d) In RCC M-300	Cum	10140	1687		
7	Providing and laying in situ R.C.C. of trap / granite/ quartzite / gneiss metal of approved quality for <u>RCC</u> works of domes as per detailed drawings and designs approved by Engineer-in-charge including centering, finishing, roughening the surfaces with special finish or plaster to be provided separately, curing, etc. complete. (By weigh batching and mix design for M250 and M-300 only. Use of L&T, A.C.C., Ambuja, Birla Gold, Manikgad, Rajashree, etc. cement is permitted.) (Excluding M.S. or Tor reinforcement)	•				
	<u>Domes</u>					
	a) In RCC M-150	Cum	9368	1648		
	b) In RCC M-200	Cum	9645	1662		
	c) In RCC M-250 - Bottom Domes only	Cum	10188	1653		
	d) In RCC M-300 - Bottom Domes only	Cum	10386	1653		

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.	2024-29
		onic				- Letter
8	Providing and fixing in position <u>steel bar</u> <u>reinforcement</u> of various diameters for RCC piles, caps, footings, foundations, slabs, beams, columns, canopies, staircases, newels, chajjas, lintels, pardies, copings, fins, arches, etc. as per detailed designs, drawings and schedules; including cutting, bending, hooking the bars, binding with wires or tack welding and supporting as required, etc. complete <u>(including cost of binding wire).</u> (Bd-F- 17/306)		Complete	Labour	Complete	Labour
	a) Mild Steel	MT	78127	8975		
	b) Tor Steel	MT	80681	8966		
	c) Corrosion Resistant Steel (Fe 500)	MT	86091	10719		
	d) Only fabrication (Labour) (For all types of steel)	MT		1		
9	Providing <u>fusion bonded epoxy coating</u> to reinforcement bars as per IS- 13620/1993 specification for a thickness of 175 (±50) microns including extra cost on account of careful handling, extra cost on account of using PVC coated binding wire instead of G.I. wire, extra cost on account of touch-up material supplied by coating agency and repair work, extra cost on account of transportation to and fro from steel yard at Regional Centre to plant at Daman and plant at Daman to work site by trailer, loading, unloading, including all taxes (Central and local), etc. complete.	2				
A	For Reinforcement Diameterwise Rates					
	1) 8 mm dia	MT	24241			
	2) 10 mm dia	MT	21493			
	3) 12 mm dia	MT	19685			
	4) 16 mm dia	MT	18993			
	5) 20 mm dia	MT	17504			
	6) 25 mm dia	MT	15948			
	7) 28 mm dia	MT	15221			
	8) 32 mm dia	MT	14101			
В	Average Rates (For estimation only)					
	1) For 8 mm to 20 mm dia	MT	20203			
	2) For above 20 mm dia	MT	14701			

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.	2024-25
SI. NO.	Description	Unit	. ,			- Aller - Aller
	Notes for Estimation		Complete	Labour	Complete	Labour
	Notes for Estimation 1) All the rates of Reinforced Cement Concrete Items from 1 to 6 shall be increased by 10% for each brace height above 1st brace for R.C.C. E.S.R.s. e.g. For a R.C.C. E.S.R. with 7 M staging and first brace at 3.50 M above ground, the concrete in columns above first brace, concrete of ring beam and bottom slab is entitled for 10% increase, concrete of vertical wall, roof slab and roof beams, columns in container are entitled for 20% increase.			0	A	
	2) All the rates of Reinforced Cement Concrete Items from 1 to 6 shall be increased by 2% for every floor height above ground floor for building works.		0	3		
	3) These rates are applicable for R.C.C. well works also. These rates shall be increased by 10% for every 5 M depth below initial 5 M depth.	9	0,			
	4) Rates for Item Nos. 7 and 8 shall be increased by 5% for each brace height above first brace for R.C.C. E.S.R.s. By 5% for every ring beam below first ring beam for R.C.C. wells. By 1% building works for every floor height.	2.				
	5) Volumetric mix as per 1:1%:3 shall be adopted with 56.5 kg of cement for RCC- 250 and 59.5 kg of cement for RCC-300, per load of mixer of 1 bag capacity.					
	6) Fusion bonded epoxy coating to be proposed only in Coastal Area with prior approval of the Chief Engineer.					
	7) For estimation purpose, average rates as per Item No. 8b shall be considered wherever necessary.					

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-2
			Complete	Labour	Complete	Labour
	READY MIX CONCRETE					
10	Providing and laying in situ <u>Ready Mix</u> <u>Cement Concrete</u> grade of trap / granite / quartzite / gneiss metal for <u>RCC works in</u> <u>foundation</u> like raft, grillage, strip foundation and footing of RCC column and steel stanchions including normal dewatering, form work, compaction, finishing and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (Excluding reinforcement and			(2	
	structural steel)		6	2	×	
	For Foundation		-			
	a) In RCC M-150	Cum	5782	1157		
	b) In RCC M-200	Cum	6198	1016		
	c) In RCC M-250	Cum	6629	1067		
	d) In RCC M-300	Cum	6949	1109		
11	Providing and casting in situ Ready Mix Cement Concrete grade of trap / granite / quartzite / gneiss metal of approved quality for RCC works as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (Excluding reinforcement and structural steel)	2				
	For all types of Columns					
	a) In RCC M-150	Cum	7009	1907		
	b) In RCC M-200	Cum	7009	2246		
	c) In RCC M-250	Cum	7437	2240		
	d) In RCC M-230	Cum	8150	1886		

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25	F
			Complete	Labour	Complete	Labour	
12	Providing and casting in situ <u>Ready Mix</u> <u>Cement Concrete</u> grade of trap / granite / quartzite / gneiss metal of approved quality for <u>RCC works</u> as per detailed drawings and designs or as directed by Engineer-in- charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (<u>Excluding reinforcement and structural</u> <u>steel</u>)		0	3	2		
	For Rooms / Process / Lintels		\square	1			4
	For Beams / Braces / Lintels		600.4	1017			4
	a) In RCC M-150 b) In RCC M-200	Cum	6994	1017			-
	c) In RCC M-250	Cum	7374	1993			-
	d) In RCC M-200	Cum Cum	7442 8067	2031 2070			4
13	Providing and casting in situ <u>Ready Mix</u> <u>Cement Concrete</u> grade of trap / granite / quartzite / gneiss metal of approved quality for <u>RCC works</u> as per detailed drawings and designs or as directed by Engineer-in- charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (<u>Excluding reinforcement and structural</u> <u>steel)</u>						
	<u>Slabs / Landings / Vertical Walls / Waist</u> <u>Slabs / Steps for Staircase</u>						-
	a) In RCC M-150	Cum	7424	1065			
	b) In RCC M-200	Cum	8011	2579]
	c) In RCC M-250	Cum	8436	2678]
	d) In RCC M-300	Cum	8702	2667			

						and the second s
Sr. No.	. Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
14	Providing and casting in situ <u>Ready Mix</u> <u>Cement Concrete</u> grade of trap / granite / quartzite / gneiss metal of approved quality for <u>RCC works</u> as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (<u>Excluding reinforcement and structural steel</u>)		2	3	2	
	<u>Chajjas / Parapets / Curtain Walls /</u> Partition Walls / Pardies	C	0			
	a) In RCC M-150	Cum	7511	1126		
	b) In RCC M-200	Cum	7912	2524		
	c) In RCC M-250	Cum	8337	2640		
15	d) In RCC M-300 Providing and casting in situ <u>Ready Mix</u> <u>Cement Concrete</u> grade of trap / granite / quartzite / gneiss metal of approved quality for <u>RCC works</u> as per detailed drawings and designs or as directed by Engineer-in-charge including normal dewatering, centering, form work, compaction, finishing the formed surfaces with CM 1:3 of sufficient minimum thickness to give a smooth and even surface wherever necessary or roughening if special finish is to be provided and curing including transporting from mixing plant upto distance of 25 km., pouring the concrete at work site for 1.5 M lift above G.L. and 5.0 M lift below G.L., etc. complete. (<u>Excluding reinforcement and</u> <u>structural steel</u>)	Cum	8658	2667		
	Domes a) In RCC M-150	Cum	7757	1092		
	b) In RCC M-150	Cum	8208	2832		
	c) In RCC M-250	Cum	8632	2852		
	d) In RCC M-300	Cum	8898	2900		
	Notes					

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)) 2024-25
			Complete	Labour	Complete	Labour
	1) Add Rs. 10/- per Cum for transportation beyond 25 km. for every additional lead of 1 km.					
	2) Beyond 1.5 M above G.L. and 5.0 M below G.L., concreting is to be done by pumping by the Company.					
	3) Additional rate of pumping is					
	a) Static Pump : Rs. 175/- per Cum					
	b) Mobile Pump : Rs. 250/- per Cum					
	 For Ready Mix Concrete, prior permission from Chief Engineer must be obtained. 			(
	Note : Completed rates are inclusive of 12.5% EPF and 1% Insurance Charges.			21	V	



SECTION - H MISCELLANEOUS

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
1	Providing and fixing G.I. pipe railing having 1.0 M height consisting 50 x 50 x 6 mm thick M.S. angles as verticals at 1.5 M c/c and additional posts at every corner with 3 rows of 25 mm dia G.I. pipes of medium class variety as horizontal and painting 3 coats of oil paint over 1 coat of anticorrosive paint of approved colour and shade including cost of all labour, transporting bends to curved shape, etc. complete.	RM	1191	111		
А	As above but with only 2 rows.	RM	898	74		
2	Dismantling of ESRs of various capacities and heights using crane (10 MT capacity) and handing over M.S./ C.I./G.I. pipes, valves, bends, etc. to the Department. However taking steel reinforcement by the dismantling agency including removing dismantled materials from site and disposing them at suitable place as directed, etc. complete.		C	3	?'	
A	Capacity of E.S.R. upto 2 lakh litres and staging upto 12 M height.		0	V		
	i) Congested Area	Lit	2.65	2.42		
	ii) Open Area	Lit	1.35	1.20		
В	Capacity of E.S.R. above 2 lakh litres and staging upto 12 M height.					
	i) Congested Area	Lit	2.33	1.35		
	ii) Open Area	Lit	1.33	1.20		
	Note : Above 12 M staging height, add 5% per metre staging of E.S.R. of any capacity.					
3	Providing and fixing M.S. gate 2.5 M wide for compound with 40 mm dia G.I. pipe, approved grill work, RCC M-150 side pillars of 25 cm x 40 cm x 2.5 M height, its foundation, finishing, painting, etc. complete.					
4	Providing and fixing Wicket gate 1.0 M	No.	33136	4179		
	wide for compound with 40 mm dia G.I. pipe, approved grill work, RCC M-150 side pillars of 25 cm x 40 cm x 2.5 M height, its foundation, finishing, painting, etc. complete.					
		No.	20732	2740		

Sr.	Description							
No.			Complete	Labour	Complete	Labour		
5	Taking trial bore (Core Bore Sampling) by Callyx machine with TCT/NX bits to gather undisturbed strata samples for investigation in all types of strata, soft soil, murum, hard murum with boulders, soft rock, hard rock and quartzite, etc. The item includes all hire and running cost of Callyx machine, conveying all materials to site of work excluding conveyance of callyx machine and back sampling all over burden strata in glass jar and core samples serially numbered at site in a wooden core box, samples to be taken at 1.0 M interval and conveying to the place as directed by Engineer-in-charge. The diameter of bore in overburden shall be 100 mm and of NX size (50 mm) in other strata. The item shall also include M.S. casing pipe of 2.5 mm thick plate in overburden only and shall be 1.0 M above GL with cap over it.			3	2			
	a) In overburden (soft soil, murum)	RMT	1702	257				
	b) In weathered rock with boulders	RMT	6300	1370				
	c) In weathered rock / soft rock	RMT	3216	695				
	d) In hard rock other than quartzite	RMT	4638	1023				
	e) In hard rock quartzite	RMT	9197	1960				
6	Providing pressure grouting at a pressure of 5.6 kg/sqcm in required row / zigzag fashion as specified at 1.5 M interval as per site conditions to stop leakages through water retaining structures to the entire satisfaction of the Engineer-in-charge including material compound, hardening materials, compressor equipment including scaffolding, smooth finishing, etc. complete.	1						
	i) For masonry structure	Bag	1185	158				
	ii) For concrete structure	Bag	1176	166				
7	Drilling 40 mm dia holes in masonry or concrete structure with providing and fixing 0.5 M long G.I. pipeline for pressure grouting including all material, labour cost and machinery charges, etc. complete.	RM	1205	152				
8	Providing and casting ferrocrate water tank at site including all cost of labour and material, etc. complete upto 25,000 litres (for foundation and providing and fixing taps, etc. shall be considered separately).	Lit	10	2				

No .	Providing and applying one coat of gamma coating or equivalent such as Dr.Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paint, epoxy primer 50 to 60 microns thick and covering two coats of gamma coatings or equivalent such as Dr. Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and de-rusting by applying chemical method and		Complete	Labour	Complete	Labour
9	gamma coating or equivalent such as Dr.Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paint, epoxy primer 50 to 60 microns thick and covering two coats of gamma coatings or equivalent such as Dr. Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	Dr.Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paint, epoxy primer 50 to 60 microns thick and covering two coats of gamma coatings or equivalent such as Dr. Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	Limited, Burger Paint, epoxy primer 50 to 60 microns thick and covering two coats of gamma coatings or equivalent such as Dr. Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	gamma coatings or equivalent such as Dr. Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	Bake, Krishna Conchem, Asian Paint, Atul Limited, Burger Paints 30 microns thick each to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	to new M.S. pipes and structural steel or concrete surface including repainting the surface by finishing by solvent degreasing and					
	concrete surface including repainting the surface by finishing by solvent degreasing and					
	surface by finishing by solvent degreasing and					
	de-rusting by applying chemical method and					
	scaffolding if necessary, etc. complete as per manufacturer's specifications.				$\sim v$	
10	Making cross connection to existing	Sqm	366	165		
10	distribution main of any type including				. V	
	excavation, breaking and removing existing					
	pipes, lowering, laying of specials and pipes in their position, refilling, closing the water supply			\sim		
	in that area, dewatering and restarting the			\sim		
	water supply, etc. complete as directed by Engineer-in-charge for following diameters		\frown			
	of existing pipeline, irrespective of diameter		1.	V.		
	of branch line. (The number of joints involved	C	\sim			
	will be paid separately depending upon the nature of joints and required pipes, valves and	1	12			
	specials will be supplied free of cost at stores.)		V			
i)	80 mm	No	2990	2506		
ii)	100 mm	No	3407	2843		
iii)	125 mm	No	3739	3131		
iv) v)	150 mm 200 mm	No	4182	3540		
v) vi)	250 mm	No	4378	3730		
vii)	300 mm	No No	5200 6197	4428 5218		
viii)	350 mm	No	7302	6215		
ix)	400 mm	No	8803	7440		
x)	450 mm	No	9860	8364		
xi)	500 mm	No	11810	10310		
xii)	600 mm	No	19875	16605		
xiii)	700 mm	No	24532	20466		
xiv)	750 mm	No	30844	25735		
xv)	800 mm	No	39658	33022		
xvi)	900 mm	No	52114	43269		
xvii)	1000 mm Note : Only 75% rate shall be payable till	No	72794	60236		

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
11	Dismantling dead pipeline of M.S./ R.C.C./ C.I./ P.S.C. and G.I./ A.C./ P.V.C./ S.W./ H.D.P.E. pipe including cost of necessary excavation and refilling of trenches, breaking the joints, lifting the pipes and stacking to the place as directed by Engineer-in-charge with all leads and lifts including cleaning the surface, etc. complete.					
Α	For M.S. / R.C.C. / C.I. / P.S.C.					
i)	80 mm	RMT	216	46	- h.	
ii)	100 mm	RMT	239	68		1
iii)	125 mm	RMT	244	73	$\cap V$	
iv)	150 mm	RMT	248	77		
v)	200 mm	RMT	274	91		
vi)	250 mm	RMT	302	108		
vii)	300 mm	RMT	329	124		
viii)	350 mm	RMT	368	152		
ix)	400 mm	RMT	401	172		
x)	450 mm	RMT	455	190		
xi)	500 mm	RMT	478	193		
xii)	600 mm	RMT	584	252		
xiii)	700 mm	RMT	682	294		
xiv)	750 mm	RMT	768	332		
В	For G.I. / A.C. / P.V.C. / S.W. / H.D.P.E.					
i)	80 mm	RMT	130	29		
ii)	100 mm	RMT	143	41		
iii)	125 mm	RMT	145	43		
iv)	150 mm	RMT	148	46		
v)	200 mm	RMT	164	55		
vi)	250 mm	RMT	182	66		
vii)	300 mm	RMT	196	73		
viii)	350 mm	RMT	221	91		
ix)	400 mm	RMT	241	104		
x)	450 mm	RMT	272	114		
xi)	500 mm	RMT	287	119		
xii)	600 mm	RMT	350	152		
xiii)	700 mm	RMT	410	176		
xiv)	750 mm	RMT	461	199		



Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
12	Providing and constructing two taps <u>standpost</u> as per type design with excavation 15 cm thick PCC 1:3:6 bedding 20 mm thick PCC 1:2:4 concrete for platform of 1.75 M dia. with side curb and bucket rest, 80 mm dia, heavy duty GI pipe central post duly filled therein with C.C. 1:2:4, 5 M long, 20 mm dia. medium G.I. pipe from point of tapping to standpost, additional 20 mm dia G.I. pipe fixed vertically upto 15 mm dia self closing water taps, one brass ferrule, etc. complete together with all labour and material charges as per drawing and as directed by Engineer-in- charge when good foundation is available. Rate includes draining arrangement by excavating open gutters.				2	ĸ
		No	9609	1258	/ V	
A	As above but when precast RCC platform or precast standpost is issued free of cost at departmental stores including cost of transportation and fixing, etc. complete.	No	5271	544		
13	Providing and constructing two taps standpost as per type design with excavation 30 cm thick boulder filling 15 cm thick PCC in 1:3:6, 20 mm thick RCC, 1:2:4 platform of 1.75 M dia. with side curb and bucket rest, 80 mm dia, heavy duty Gl pipe central post duly filled therein with C.C. 1:2:4, 5 M long, 20 mm dia. medium G.I. pipe from point of tapping to standpost, additional 20 mm dia G.I. pipe fixed horizontally and providing and fixing two 15 mm dia Gl self closing water taps, one brass ferrule, etc. complete together with all labour and material charges as per drawing and as directed by Engineer-in-charge when B.C. soil is available. Rate includes draining arrangement by excavating open gutters.	No	10291	1281		
Α	As above but when precast RCC platform or		10231	1201		
14	precast standpost is issued free of cost at departmental stores including cost of transportation and fixing, etc. complete. <u>Pushing of M.S. pipes</u> of following dia for	No	6190	693		
	road crossing and railway crossing by push through method in all types of strata by using hydraulic jack and drilling machine of required diameter of below M.S. casing pipes, lowering, laying , jointing of material, required welding machinery, tripod, shain -pulley block crain, blower, compressor, loading and unloading of machinery into the trench, etc. transportation and dewatering, etc complete, as directed by engineer-in-charge but excluding the cost of M.S. pipes.					
	a) 200 mm to 499 mm dia MS pipe	RMT	27618			
	b) 500 mm to 1000 mm dia MS pipe	RMT	34522			

Sr.	Description	Unit	Rate (Rs.)) 2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
15	Providing and erecting slip form shuttering including dismantling after completion for constructing vertical shutters, such as jackwell, balancing tank, bridge column and for horizontal structure in R.C.C. The item includes lifting arrangement, centering, form work, normal dewatering, electrical arrangement with generator set and with all equipments for slip form shuttering work with labour, material and machinery, all rents, fuels, insurance charges. The rate is for various dia, depth and various sizes of structures, etc. complete. Note : A) All risks and costs lie with the contractor itself. B) The arrangement for lighting with cables till top height to be provided by the contractor. C) Any accident arising out of the work will be responsibility of the contractor. D) No idle charges for machinery and labour will be paid. E) Insurance for all types of machinery and workers will be borne by contractor. Providing and Laying HDPE <u>Geomembrane sheet</u> of following thickness 100% acid, alkali proof, 100% reinforced sealing quality, every joint electronically welded, as per relevant IS specification and placing in proper position on prepared bed on foundation/ embankment with welding the joints of sheet using hot sedge and extrusion welding techniques according to the leanier manufaturers specifications at ambient temperaturesnof 5qC to 45qC including all taxes and labour for igning and placing etc	Sq.M.	3629			
	taxes and labour for jointing and placing etc. complete. 500 micron					
_		Sq.M.	307	77		
	250 micron	Sq.M.	212	53		

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.	.) 2024-25
No.			Complete	Labour	Complete	Labour
17	Providing and making UPVC/MDPE pipe consumer service connection on Distribution main by drilling hole with suitable means , including all labour , UPVC/MDPE Pipe of required length with or without Road crossing as described below, including cost of specials like Saddle/Clamp Saddle of suitable material, and diameter suitable for Distribution main, 15mm /20mm/ 25mm respective Dia Heavy duty Brass/Polyprophylyne(Twin Jacketed) Ferrule , Male and Female thread adapter Elbow, Bends,couplers ,Tees, Clamps of suitable material and sundry materials as per requirment, including providing and fixing medium duty 15.mm brass bib tap, GI casing pipe of suitable diameter of 32mm/ 40mm/ 50mm respectively of required length for Road crossing, including requird labour for excavation in all types of strata up to the depth of 0.75m or as per site requirement, all types of plumbing fittings, refilling , Closing the water supply in that area, dewatering, hydraulic testing and restarting the water supply ,transportation of material etc. complete as directed by Engineer in charge.	0	6	3	2	
	directed by Engineer in charge. A) Household Connection without water meter (Comression Saddle+ISI Mark	0	V			
	Ferrul) for HDPE & PVC pipe For MDPE/UPVC Pipe Service					
	Connection on Disribution main (With Road Crossing)					
	For 15 mm Service connection					
	For 20 mm Service connection	No	4020			
	For 25 mm Service connection	No	5015			
	(Without Road Crossing)	No	6636			
	For 15 mm Service connection					
	For 20 mm Service connection	No	2890			
-		No	3670			
	For 25 mm Service connection B)Household Connection without water meter (With Integrated Saddle & compression Specials) For HDPE/PVC pipe	No	4994			
	(With Road Crossing)					
	For 15 mm Service connection	Na	2406			
	For 20 mm Service connection	No	3406			
	For 25 mm Service connection	No	4540			
	(Without Road Crossing)	No	6451			
	For 15 mm Service connection					
	For 20 mm Service connection	No	2276			
		No	3194			
	For 25 mm Service connection	No	4809			

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
18	Providing and making GI pipe consumer service connection on GI Distribution main by drilling hole with suitable means, including all labour ,GI Pipe of required length with or without Road crossing as described below, including cost of specials like Saddle/Clamp Saddle of suitable material, and diameter suitable for Distribution main, 15mm/20mm/25mm respective Dia. Heavy duty Brass/ Polyprophylyne (Twin Jacketed) Ferrule, Male and Female thread adapter Elbow, Bends, couplers ,Tees, Clamps of suitable material and sundry materials as per requirment, including providing and fixing medium duty 15.mm brass bib tap, GI casing pipe of minimum 32mm/40mm/50mm respective dia of required length for Road crossing, including requird labour for excavation in all types of strata up to the depth of 0.75m or as per site requirement,all types of plumbing fitting, refilling , Closing the water supply in that area, dewatering, hydraulic testing and restarting the water supply ,transportation of material etc. complete as directed by Engineer in charge. 1) With Road crossing , (With Road Crossing)		500	25	2	
	For 15 mm Service connection	No	4357			
	For 20 mm Service connection	No	5500			
	For 25 mm Service connection	No	7532			
	(Without Road Crossing)					
	For 15 mm Service connection	No	2931			
	For 20 mm Service connection	No	3783			
	For 25 mm Service connection	No	5342			

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
19	Providing and applying externally 3 layer fusion bonded polyethylene (3LPE) lining to mild steel pipes of minimum 3000 micron confirming to DIN-30670 standards and internally fusion bonded epoxy lining as per IS- 3589-2001 annexture "C" of 400 micron thickness, 150 mm space shall be left uncoated (cutback) on both ends of mild steel pipes for welding purpose & same shall be coated after completion of welding at site with 100% solid, cold applied, polymetric coating as specified in the standards. The rate shall include the cost of material, coating and wrapping over the pipes,handling changes cleaning of pipe internally and externally with proper blasting preparation of pipes surface dust free as per specifications transportation of pipes from site to works to factory and back to site of works after coating etc complete. Note– Pipe coating shall be done at factory only and in any case the 3LPE coated pipes shall not be used for laying above ground and for making bends or specials.		2	25	2	κ.
	Note :- Dual layer polyster coating from outside is not popular and has limited facility, hence proposed to be deleted.	C	1688			
20	External Coating Providing and applying 100% Solids Polyurethane Coating meeting BIS16719 & Rigid, Directto Metal,100% Solids Polyurethane Coating meeting AWWA C-222 of minimum 1000 micron thickness on the external surface of MS Pipe after blast cleaning to SA 2½ with Anchor profile of >75Microns using angular Steel Grit. Pipe blast cleaning and coating shall only be permitted in the pipe manufacturer's facility, preferably on rolling conveyor using fast set materials. The rates are including loading, unloading, handling and transportation of Pipe etc complete.	Sqm	695			
5	Product shall be supplied and applied as per detailed specification provided by the department.					

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
21	Internal Lining Providing and applying 100% Solids Polyurethane Coating meeting BIS 16719 & Rigid, Directto Metal,100% Solids Polyurethane Coating meeting AWWA C-222 and satisfying the criterionfordrinking water as per WRAS-BS 6920 to a thickness of 500 Microns (SSPC PA2) on theinternal surface of MS Pipe afterblast cleaning to SA 2½ with Anchor Profile of >75 Microns Using angular Steel Grit.The Coating should meetTotal Organic Carbon (TOC) as per APHA- AWWAWEF5310C < 2.00 milligram/ Litre. Pipe lining shall only be permitted in the pipe manufacturer's facility. Site application shall not be permitted. The rates are including		Complete	Labour	Complete	Labour
	loading, unloading, handling and	Cam	494	S		
	transportation of Pipe etc complete. Product shall be supplied and applied as per detailed specification provided by the department.	Sqm	494	V		
22	Internal Lining (food grade Epoxy) Providing and applying two part food grade polyamide cured solvent less epoxy lining, meeting BIS 16676on the internal surface of MS Pipe afterblast cleaning to SA 2½ with Anchor Profile of >75 Microns Using angular Steel Grit.The minimum dry film thickness (DFT) of internal lining shall be 400 micron (SSPC PA2). The epoxy coating should offer highest resistance to cathodic disbondment and provide excellent adhesion to steel. The manufacturer shall have the certificate issued in support of portable water service for tests of pH, turbidity, total hardness, chloride nitrate, iron, arsenic & fluoride as per IS 10500 : 2003 and IS 16676 : 2017. Site application shall not be permitted.The rates are including loading, unloading, handling and transportation of Pipe etc complete.	Sqm	415			
	Product shall be supplied and applied as per detailed specification provided by the department.					

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
23	Supply and installation of prefabricated ground water storage bolted tanks, a complete package in knockdown, ready to assemble construction consisting of outer wall surface mad out of special grade hot dip aluminum – Zink alloy, metallic factory coated steel confirming to IS-15961-2012 minimum thickness of 0.6 mm = The inner surface should be provided with liners of minimum 0.6 mm thickness of reinforce polyethylene or polypropylene or metallocene material suitable for drinking water purpose. Top cover shall be of polyethene tape monophylament yarn or woven polypropylene or corrugated G.I. Sheets Rate include cost of inlet, outlet, overflow Pipes up to 5 m from periphery of tank including ball valves of standard quality , aluminum ladder, level indicater, water tightness test, transportation up to site of work excluding GST levied by GOI & GOM in all respect etc.complete.			3	2	
	Above tanks can be installed on elevated platform. (ESR) the rate of tank does not include the cost of elevated platform. 2% extra to be considered for installation of tank on elevated platform. The elevated platform needs to be designed as per requirement & which will be paid separately. The elevated platform must be of steel framed structure.		2	~		
	For the dome type GI corrugated roof structure with hot dip galvanized trusses with GI manhole for access for cleaning and maintainance, 10 % extra shall be added. For heavy duty five layer polypropylene					
	reinforced liner with mettallocene contact layer having a minimum thickness of 1 mm- 10 % extra shall be added.					
	Incase Rain water harvesting filters & system to catch the rain form the GI Tank roofs mounted on the Tank roof and supplied with tank then 10 % extra shall be added.		With RCC Foundation	Without RCC Foundation		
	25000	Lit	15.51	14.72		
	<u>30000</u> 50000	Lit Lit	14.08 12.87	13.28 12.07		
	75000	Lit	12.87			
	100000	Lit	9.45			
	150000	Lit	8.44	7.69		
_	200000	Lit	7.87	7.06		
	250000	Lit	7.13			
	300000	Lit	6.91	6.11		
	375000	Lit	6.05			
	500000 750000	Lit Lit	5.56 5.19			
	100000	Lit	4.99			
	1500000	Lit	4.62			



SECTION - I (I) C.1./D.1. PIPES

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
1	2	3		5		
	1. C.I. PIPES					
1.	Providing and supplying ISI mark C.I. S&S					
	pipes (push on joints pressure pipes of C.I of					
	following class and diameters confirming to the					
	I.S.specification inclusive cost of jointing					
	materials(Rubber gasket of EPDM Quality)					
	excluding GST levied by Gol and GoM in all					
	respect, Third party inspection charges of TPI					
	Agency approved by MJP including Transit					
	insurance, Railway Freight, Unloading from					
	railway wagon, Loading into Truck,					
	Transportation to departmental store/site of					
	work, unloading, stacking etc. completed as					
	directed by Engineer –in-charge (IS 1536/2001				- Do	
	for pipes and IS 158/1969 and IS 12820/1989 or					1.0
	latest edition / revision with amendments for					
	Rubber Gaskets.					1
	(Suitable for Tyton / Pig_lead joints)					
	a) Class 'LA'				11	
	i) 80 mm	Rmt	1052		2	
	ii) 100 mm	Rmt	1319	()_1		
	iii) 150 mm	Rmt	2141	1		
	iv) 200 mm	Rmt	3083			
	v) 250 mm	Rmt	4154			
_	vi) 300 mm	Rmt	5357	1		
<u>1.</u>	C.I. PIPES 'A' Class Continued			V		
<u>B)</u> i)	Class 'A' 80 mm	Rmt	1086	W.		
	100 mm	Rmt	1357			
	125 mm	Rmt	1766			
	150 mm	Rmt	2174			
V)	200 mm	Rmt	3142			
vi)	250 mm	Rmt	4246			
	300 mm	Rmt	5495			
	350 mm	Rmt	6869 8425			
	400 mm 450 mm	Rmt Rmt	10206			
	500 mm	Rmt	11702			
	600 mm	Rmt	15625			
	700 mm	Rmt	20364			
	750 mm	Rmt	22619			
	800 mm	Rmt	25286			
	900 mm	Rmt	30778			
xvii)	1000 mm	Rmt	37021			
C)	Class 'B'		44=0			
i)	80 mm	Rmt	1156			
	100 mm	Rmt	1447			
	125 mm	Rmt	1901 2340			
	150 mm	Rmt	2340 3395			
	200 mm 250 mm	Rmt Rmt	4591			
	300 mm	Rmt	5953			
	350 mm	Rmt	7452			
	400 mm	Rmt	8604			
	450 mm	Rmt	11012			
	500 mm	Rmt	12659			
	600 mm	Rmt	16680			
	700 mm	Rmt	21803			
	750 mm	Rmt	24539			
MV)	800 mm	Rmt	27353			
	0.00				1	
xvi)	900 mm 1000 mm	Rmt Rmt	33346 40007			

	2 Lowering laying and jointing with SBR ruber	3		-		
2.	Lowering laying and jointing with SBR ruber			5		
	gaskets C.I. S/S pipes of various classes with					
	CI / MS specials of following diameter in proper					
	position, grade and alignment as directed by					
	Engineer-in-charge including conveyance of					
	material from stores to site of work, including					
	cost of jointing materials and rubber rings		Without			
	labour etc. complete.		Rubber	With Rubber		
ŀ			Rings	Rings		
	Note : Only SBR Rubber gaskets to be used as	per	5	J		
	C.I. 'L.A.' Class / Mortar inlined DI K-9/K-7					
i)	80 mm.	Rmt	59	68		
ii)	100 mm.	Rmt	72	78		
iii)	125 mm.	Rmt	90	99		
	150 mm.	Rmt	96	108		
v)	200 mm.	Rmt	127	140		and a
vi)	250 mm.	Rmt	167	184		
	300 mm.	Rmt	180	206		1
	350 mm.	Rmt	224	253		
	400 mm.	Rmt	270	311	1	
	450 mm.	Rmt	270	328		
	500 mm.	Rmt	311	380		
	600 mm.	Rmt	409	504		
	700 mm.	Rmt	529	710		
	750 mm.	Rmt	591	776		
	800 mm.	Rmt	724	911		
	900 mm.	Rmt	865	1144		
(vii)	1000 mm.	Rmt	1021	1387		
B)	C.I. 'A' Class	-				
	80 mm.	Rmt	62	76		
	100 mm.	Rmt	76	90		
	125 mm.	Rmt	97	108		
	150 mm.	Rmt	106	115		
	200 mm.	Rmt	137	150		
	250 mm.	Rmt	180	198		
	300 mm.	Rmt	197	221		
	350 mm.	Rmt	242	271		
	400 mm.	Rmt	272	312		
x)	450 mm.	Rmt	286	330		
xi)	500 mm.	Rmt	336	403		
	600 mm	Rmt	445	539		
xiii)	700 mm.	Rmt	571	753		
xiv)	750 mm.	Rmt	644	825		
	800 mm.	Rmt	759	944		
	900 mm.	Rmt	913	1192		
	1000 mm.	Rmt	1067	1431		
	CI 'B' Class					
	80 mm.	Rmt	68	78		
	100 mm.	Rmt	81	97		
	125 mm.	Rmt	105	115		
	150 mm.	Rmt	118	131		
	200 mm.	Rmt	150	168		
	250 mm.	Rmt	195	221		
	300 mm.	Rmt	213	237		
	350 mm.	Rmt	261	304		
	400 mm.	Rmt	304	344		
	450 mm.	Rmt	309	354		
	500 mm.	Rmt	362	429		
	600 mm.	Rmt	482	571		
	700 mm.	Rmt	618	795		
	750 mm.	Rmt	699	879		
	800 mm.	Rmt	814	997		
	900 mm.	Rmt	964	1242		
	1000 mm.	Rmt	1101	1463		
	<u>Note :Only 85 % rate shall be payable till</u> satisfactory Hydraulic testing is given.					

Sr. No.	Description	Unit	Rate (Re	s.) 2023-24	Rate (Rs.) 2024-25
10. 1	2	3		5		
	Providing D.I. pipes (push on joints pressure					
	pipes of D. I. of following class and diameters					
	confirming to the I. S. specification inclusive cost					
	of jointing materials (Rubber gasket of EPDM					
	Quality) excluding GST levied by GOI & GOM in					
	all respect including Third party inspection					
	charges of TPI Agency approved by MJP					
	including Transit insurance, Railway Freight,					
	Unloading from railway wagon, Loading into					
-	Truck, Transportation to departmental store,					
u	unloading, stacking etc. completed as directed by					
6	Engineer in charges (IS 1536/2001 for pipes and					
	IS 158/1969 and IS 12820/1989 or latest edi-					
	tion/revision with amendments for Rubber				0.0	
	Gaskets.					
						100
			B · · · =			
	(IS:8329-2000 Latest Version)		D.I. K-7	D.I. K-9		5
	100mm	Rmt	1209	1455		
	150mm	Rmt	1686	1919		
	200mm	Rmt	2236 2906	2607 3511		
	250mm 300mm	Rmt Rmt	2906 3571	4349		
	350 mm		4465	5359		
	400 mm	Rmt Rmt	5328	6423		
	450 mm	Rmt	6346	7817		
	500 mm	Rmt	7392	9095		
	600 mm	Rmt	9765	11896		
	700 mm	Rmt	13246	15337		
	750 mm	Rmt	15296	17254		
	800 mm	Rmt	17405	18777		
	900 mm	Rmt	21103	22950		
	1000 mm	Rmt	25261	27750		
xvi) [′	1100 mm	Rmt	33427	33193		
(vii)	1200 mm	Rmt	38818	38427		
<u> </u>	Note: For DI pipe supply from MJP 18% GST	100				
\	would be applicable. Same should be considered					
f	for estimation purpose.					
4.	Providing and making lead caulked joint with					
!	molten lead to Cast Iron pipes and / or					
5	specials of all classes and fitting of following dia			1		
	including cost of lead and all jointing material,					
I	labour, hydraulic testing etc. complete.					
	80 mm.	Joint	1045			
	100 mm.	Joint	1294			
	125 mm.	Joint	1540			
	150 mm.	Joint	1912			
	200 mm.	Joint	2786			
	250 mm.	Joint	3383 4080			
	300 mm.	Joint	4080			
	<u>350 mm.</u> 400 mm.	Joint Joint	5395			<u> </u>
	400 mm. 450 mm.	Joint	7492	+		
	500 mm.	Joint	8053			
	600 mm.	Joint	10348	1		
	700 mm.	Joint	12156	1		
	750 mm.	Joint	13806			
	800 mm.	Joint	14826			
	900 mm.	Joint	15814			
	1000 mm.	Joint	16861			
	Note :Only 85 % rate shall be payable till					
	satisfactory Hydraulic testing is given.			1		
	Sufficiently right and the country is given.					

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25		
1	2	3		5			
5.	Providing and supplying ISI standard CI						
	double flanged pipes excluding GST levied by						
	GOI & GOM in all respect including railway						
	freight, insurance, unloading from railway wagon,						
	loading into truck transport to stores, unloading						
	etc. complete as directed by Engineer-in-charge.						
	ete. complete as directed by Engineer-in-charge.						
i)	80 mm.	Rmt	1759				
	100 mm.	Rmt	2176				
iii)	125 mm.	Rmt	2832				
iv)	150 mm.	Rmt	3534				
	200 mm.	Rmt	5423				
	250 mm.	Rmt	7307				
	300 mm.	Rmt	9395				
	350 mm.	Rmt	12262				
	400 mm.	Rmt	14951			-	
X)	450 mm.	Rmt	17952			1	
	500 mm.	Rmt	21068				
	600 mm.	Rmt	29971		1		
	700 mm.	Rmt	40153				
			43688		P		
	750 mm.	Rmt	43088	1 2 9			
6.	Providing and supplying ISI standard CI flanged			2 1			
	/ <u>S& S specials</u> excluding GST levied by GOI &						
	GOM in all respect, railway freight, insurance,						
	unloading from railway wagon, loading into truck						
			100				
	transport to departmental store /site, unloading						
	stacking etc. complete.	_		1			
		100					
<u>a)</u>	D/F Specials	()					
i)	80 to 300 mm dia	Kg.	88				
ii)	350 to 600 mm dia	Kg.	94				
	Above 600 mm dia	Kg.	101				
	S/S Specials / Socketed Branch Flanged	Ttg.	101				
<u>N</u>							
••	Specials	16	0.4				
i)	80 to 300 mm dia	Kg.	84				
ii)	350 to 600 mm dia	Kg.	90				
iii)	Above 600 mm dia	Kg.	96				
	C) Plain ended/ plain ended branch flanged sp	ecials					
i)	80 to 300 mm dia	Kg.	82				
	350 to 600 mm dia	Kg.	90				
			96				
iii)	Above 600 mm dia	Kg.	90				
7	Draviding and augubing 101 standard 110						
7.	Providing and supplying ISI standard MS						
	specials of required thickness with 3 coats of						
	approved make epoxy paint (Shalimar, Ciba or						
	Mahindra & Mahindra make) from inside and						
	outside excluding all statutory duties & taxes						
1.00							
	such as GST levied by GOI & GOM in all						
	respect, inspection charges, transportation to						
	stores / site, and stacking, etc. complete.						
-							
a)	Machine ends suitable for PSC pipes of all						
	diameters as per detailed drawing with 10 mm						
1	thick x 0.7 M long barrel welded to it.	Kg.	101				
b)	Only flanges with machining and drilling holes,						
D)							
	etc. com-plete more than 40 mm thick.						
		Kg.	98				
c)	Double flanged specials of all diameters	Kg.	95				
d)	All socketed specials or socketed branch flanged	Ĭ					
~)	specials of all diameters.	Kg.	95				
<i>c</i>)	Diain and an analia an atain and at the state	rvy.					
e)	Plain ended specials or plain ended branch		a –				
	flanged specials of all diameters.	Kg.	95				
f)	MS barrels (pipe pieces) locally manufactured						

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
1	2	3		5		
8.	Providing and making flanged joints to					
0.	flanged C.I./M.S. pipes of all classes/specials					
	etc. including cost of all jointing materials (rubber					
	packing, nut bolts, etc.), labour, hydraulic testing					
	etc. complete.					
<u>i)</u>	80 mm.	Joint	316			
	100 mm.	Joint	544 569			
	125 mm.	Joint	1092			
	150 mm.	Joint	1132			
	200 mm. 250 mm.	Joint Joint	1622			
	300 mm.	Joint	1685			
	350 mm.	Joint	2194			
	400 mm.	Joint	2734			
	450 mm.	Joint	3341			
	500 mm.	Joint	3458		- 17	100
	600 mm.	Joint	3713			
	700 mm.	Joint	5593			
	750 mm.	Joint	5750			
	800 mm.	Joint	7957			
	900 mm	Joint	8248			
	1000 mm	Joint	8538	6 200		
vii)	Note :Only 85 % rate shall be payable till	Joint	0000			
	satisfactory Hydraulic testing is given.					
	Substactory reparation testing is given.					
9.	Erecting and hoisting in position and			1		
<i>J</i> .	jointing, testing M.S./ C.I. D/F pipes and			V		
	specials in vertical position including cost of all	-	1 1	W		
	jointing materials (rubber packing, nut bolts, etc.)					
	labour, scaffolding, hydraulic testing etc.					
	complete.	· .				
i)	80 mm.	Joint	319			
	100 mm.	Joint	540			
iii)	125 mm.	Joint	570			
iv)	150 mm.	Joint	1061			
	200 mm.	Joint	1127			
	250 mm.	Joint	1610			
	300 mm.	Joint	1699			
	350 mm.	Joint	2207			
x)	400 mm.	Joint	2744			
	450 mm.	Joint	3353			
	500 mm.	Joint	3509			
	600 mm.	Joint	3851			
	700 mm.	Joint	5712			
	750 mm.	Joint	5929			
	800 mm.	Joint	8029			
	900 mm	Joint	8452			
	1000 mm	Joint	8909			
	Note :Only 85 % rate shall be payable till					
	satisfactory Hydraulic testing is given.					
	······································					
0.	Providing and supplying ISI standard D. I.					
	specials & fitting with sealing rubber gasket of					
	S.B.R, complete with cast iron follower gland and					
	M. S. nut bolts coated or otherwise protected					
	from rusting and suitable for D.I.pipes including					
	cost of labour ,materials, and transportation to					
	stores / site, loading and unloading excluding					
	GST levied by GOI & GOM in all respect,					
	complete as per IS-9523.					
	For all types of specials, bends tees etc.					
				1		
		K~	153			
	a) 80 to 300 mm dia.	Kg.	153 186			
		Kg. Kg.	153 186			



Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
1	2	3		5		
11.	Providing and supplying ISI standard welded DI					
	double flanged pipe excluding GST levied by					
	GOI & GOM in all respect, railway freight,					
	insurance, unloading from railway wagon, loading					
	into truck transport to store / site, unloading,					
	stacking etc. complete as directed by Engineer -					
	in- charge. (for 2.75 m bare pipe)					
	i) 100 mm	Rmt.	2738			
	ii) 150 mm	Rmt.	3718			
	iii) 200 mm	Rmt.	4757			
	iv) 250 mm	Rmt.	6457			
	v) 300 mm	Rmt.	8125			
	vi) 350 mm	Rmt.	10583			
	vii) 400 mm	Rmt.	12811			
	viii) 450 mm	Rmt.	15308			1.00
	ix) 500 mm	Rmt.	17794			
	x) 600 mm	Rmt.	23427			-
	xi) 700 mm		31525			
		Rmt.	38534			
	xii) 800 mm	Rmt.				
	xiii) 900 mm	Rmt.	47831	-		
10	xiv) 1000 mm	Rmt.	56160	6 7 9		
12.	Hydraulic testing of C.I./D.I. pipe line to					
	specified pressure including cost of all materials					
	and labour and water for testing for specified					
	length including cutting, placing end cap making					
	arrangement for filling safe water using					
	reciprocating type pumps which should be able to					
				1. C		
	provide specified test pressure gauges and other					
	necessary equipments, labour, operation					
	charges, etc. required for testing. The rate under					
	this item shall also include cost of retesting, if	1				
	necessary and reinstating to original position					
	using water supplied by the contractor.		Without			
		100	Rubber	With Rubber		
			Rings	Rings		
i)	80 mm.	KM	6581	7584		
ii)	100 mm.	KM	8011	8872		
	125 mm.	KM	9873	11016		
iv)	150 mm.	KM	10587	11875		
v)	200 mm.	KM	14165	15596		
	250 mm.	KM	18456	20317		
		KM	20031	20317		
	300 mm.		24895			
	350 mm.	KM		27900		
ix)	400 mm.	KM	29903	34624		
X)	450 mm.	KM	29903	36484		
xi)	500 mm.	KM	34624	42064		
xii)	600 mm.	KM	45498	56085		
	700 mm.	KM	58662	78831		
	750 mm.	KM	65672	86275		
XV)	800 mm.	KM	80408	101297		
	900 mm.	KM	96004	127052		
		KM	113603	154091		
xvii)	1000 mm.	NIVI	113003	104091		
	B) C.I."A" Class		0000			
i)	80 mm.	KM	6869	8441		
ii)	100 mm.	KM	8441	9873		
iii)	125 mm.	KM	10731	11875		
iv)	150 mm.	KM	11732	12877		
v)	200 mm.	KM	15310	16597		
	250 mm.	KM	20031	21890		
vii)	300 mm.	KM	21747	24465		
vii) vii)		KM	26898	30046		
vii)	1350 mm		30188	34768		
vii) viii)	350 mm. 400 mm	KW		0,00	1	
vii) viii) ix)	400 mm.	KM		36771		
vii) viii) ix) x)	400 mm. 450 mm.	KM	31763	36771		
vii) viii) ix) x) xi)	400 mm. 450 mm. 500 mm.	KM KM	31763 37343	44783		
vii) viii) ix) x)	400 mm. 450 mm.	KM	31763			

Sr.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25
<u>No.</u> 1	2	3		5		
	750 mm.	KM	71394	91711		
	800 mm.	KM	84271	104875		
	900 mm.	KM	101583	132487		
	1000 mm.	KM	118467	158956		
<u>, vii)</u>		TXIVI	110401	100000		
	C) C.I."B" Class					
i) ii)		KM	7584	8872		
	100 mm.	KM	9014	10731		
iii)	125 mm.	KM	11590	12877		
iv)	150 mm.	KM	13020	14450		
V)	200 mm.	KM	16597	18601		
vii)	250 mm.	KM	21605	24610		
vii)	300 mm.	KM	23607	26327		
viii)	350 mm.	KM	29045	33767		
ix)	400 mm.	KM	33767	38343		
X)	450 mm.	KM	34195	39346		1.00
xi)	500 mm.	KM	40205	47501		
xii)	600 mm.	KM	53367	63525		
xiii)	700 mm.	KM	68676	88277		
	750 mm.	KM	77547	97721	1	
xv)	800 mm.	KM	90423	110741		
	900 mm.	KM	107306	137924		
	1000 mm.	KM	122330	162533		
	following calass and diameter including cost of insurance, railway freight, inspection charges, unloding from railway wagon, loding into truck, transporting to departmental store, unloading, stacking and cost of rubber rings, nut bolts. excluding GST levied by GOI & GOM in all respect etc. complete (IS-1538-1993)	2	0			
	Class 10/15	100				
	i) 80 mm.	No.	335			
	ii) 100 mm.	No.	424			
	iii) 125 mm.	No.	570			
	iv) 150 mm.	No.	710			
	v) 200 mm.	No.	1072			
	vii) 250 mm.	No.	1343			
	vii) 300 mm.	No.	1842			
	Class 20					
	i) 80 mm.	No.	517			
	ii) 100 mm.	No.	539			
	iii) 125 mm.	No.	670			
	iv) 150 mm.	No.	803			
	v) 200 mm.	No.	1079			
	vii) 250 mm.	No.	1522			
	vii) 300 mm.	No.	2179			
1	10					





SECTION - I (II) P.V.C. PIPES

Sr. No.	Description	Unit	Rate (Rs.	.) 2023-24	Rate (Rs.)	2024-25	
1	2	3		4	5		जीवर आ
П.	P. V. C. PIPES						(5-m)
<u>1.</u>	Providing and supplying in <u>standard lengths</u> ISI <u>mark rigid unplasticised PVC pipe</u> s suitable for potable water with solvent cement joints including cost of couplers, as per IS specification no. 4985 / 1988 excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, inspection charges, loading, unloading, conveyance to the departmental stores and stacking the same in closed shed duly protected from sun rays and rains including cost of jointing material i.e. solvent cement, etc. complete (selffit type to be jointed with cement solvent).			0	N		
<u>Note</u>	: 1) 10% of cost of pipes shall be considered for cost of PVC specials for estimate purpose only.		6	2	V		
	2) One coupler and required cement solvent shall be provided with each full length pipe cost of which is included in rates below.		5	2			
<u>a)</u>	Working Pressure 4 Kg./Sq.cm						1
i)	63 mm.	Rmt	81]
ii)	75 mm.	Rmt	115				
iii)	90 mm.	Rmt	160				1
	110 mm.	Rmt	219				4
<u>v)</u>	140 mm	Rmt	367				-
vi)	160 mm.	Rmt	480				4
	180 mm.	Rmt	658	-			4
viii)	200 mm.	Rmt	811				4
	225 mm.	Rmt	1037		19 (A		4
x)	250 mm.	Rmt	1267				4
xi)	280 mm.	Rmt	1684	<u>.</u>			4
xii) b)	315 mm. Working Pressure 6 Kg. / Sq.cm	Rmt	2143	aa	5		4
	63 mm.	Rmt	115				{
ii)	75 mm.	Rmt	163)(r)			1
iii)	90 mm.	Rmt	238	a	6 13		1
	110 mm.	Rmt	325				1
v)	140 mm.	Rmt	542				1
vi)	160 mm.	Rmt	700				1
vii)	180 mn.	Rmt	931				1
	200 mm.	Rmt	1192				1
ix)	225 mm.	Rmt	1502				1
x)	250 mm.	Rmt	1875	İ			1
	280 mm.	Rmt	2473				1
xii)	315 mm.	Rmt	3154				1
,]
<u>C</u>	Working Pressure 8 Kg/Sq.cm]
i)	63 mm.	Rmt	159				
ii)	75 mm.	Rmt	227				
iii)	90 mm.	Rmt	322]
iv)	110 mm.	Rmt	454]
v)	140 mm.	Rmt	753				
vi)	160 mm.	Rmt	988				
vii)	180 mm.	Rmt	1307				
viii)	200 mm.	Rmt	1643				1
ix)	225 mm.	Rmt	2086]

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25	
1	2 250 mm.	3		4	5	5	an officer
x)		Rmt	2609				(1) (5-1)
xi)	280 mm.	Rmt	3437				1
xii)	315 mm.	Rmt	4352				and they heve
<u>d)</u> ii)	Working Pressure 10 Kg./Sq.cm 63 mm.	Rmt	193				
ii)	75 mm.	Rmt	273				
iii)	90 mm.	Rmt	393				
iv)	110 mm.	Rmt	554				
V)	140 mm.	Rmt	897				
vi)	160 mm.	Rmt	1173		-		
vii)	180 mm.	Rmt	1617				
viii)	200 mm. 225 mm.	Rmt Rmt	1999 2549		<u> </u>	-	
ix) x)	250 mm.	Rmt	3222				
<u>^)</u> xi)	280 mm.	Rmt	4051				
xii)	315 mm.	Rmt	5145	- J	V		
e)	Working Pressure 12.50 Kg./Sq.cm		6	Des			
ii)	63 mm.	Rmt	245				
ii)	75 mm.	Rmt	344	-			
iii)	90 mm.	Rmt	497	1			
iv)	110 mm.	Rmt	703				
<u>v)</u>	140 mm. 160 mm.	Rmt	<u>1144</u> 1505	a			
vi) vii)	180 mm.	Rmt Rmt	2057	· · · · · ·	· · · · ·		
viii)	200 mm.	Rmt	2551				
ix)	225 mm.	Rmt	3242				
x)	250 mm.	Rmt	4100				
xi)	280 mm.	Rmt	5160				
xii)	315 mm.	Rmt	6577				
<u>2.</u>	Providing and supplying in standard lengths ISI mark rigid unplastised PVC for potable water with rubber ring joints including cost of rubber ring as per IS-4985-1998, excluding GST levied by GOI and GOM in all respect, including transportation, freight charges, transit insurance, inspection charges, loading, unloading, conveyance to store and stacking the same in closed shed duly protected from sun rays and rains, etc. complete (with third party inspection) (socketed)						
i)	a) Working Pressure 4 Kg/Sq.cm 63 mm.	Rmt	89				
ii)	75 mm.	Rmt	124				
iii)	90 mm.	Rmt	179				
iv)	110 mm.	Rmt	245				
v)	125 mm	Rmt	336				
vi)	140 mm.	Rmt	407				
vii)	160 mm.	Rmt	536				
viii)	180 mm.	Rmt	728				
ix)	200 mm.	Rmt Bmt	897				
x) xi)	225 mm. 250 mm.	Rmt Rmt	1153 1411				
xii)	280 mm.	Rmt	1871				
	315 mm.			1			

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.)	2024-25
1	2			4	5	
b)	b) Working Pressure 6 Kg/Sq.cm			[
	3 mm.	Rmt	128			
	5 mm.	Rmt	182			
	0 mm.	Rmt	264			
	10 mm.	Rmt	360			
	25 mm	Rmt	497			
	40 mm.	Rmt	604			
	60 mm.	Rmt	777			
	80 mm.	Rmt	1037			
ix) 20	00 mm.	Rmt	1319			
	25 mm.	Rmt	1668	(-	
	50 mm.	Rmt	2084			
xii) 28	80 mm.	Rmt	2746			
(iii) 31	15 mm.	Rmt	3502			
5.5			-	- L		
	Working Pressure 8 Kg./Sg.cm		4		1	
	3 mm.	Rmt	173	and the second		
	5 mm.	Rmt	254		-	
	0 mm.	Rmt	357			
	10 mm.	Rmt	504		· · · · · · · ·	
	25 mm	Rmt	693		·	
/i) 14	40 mm.	Rmt	835			
	60 mm.	Rmt	1095			
	80 mm.	Rmt	1454			
	00 mm.	Rmt	1826			
	25 mm.	Rmt	2316			
	50 mm.	Rmt	2894			
	80 mm.	Rmt	3818			
iii) 31	15 mm.	Rmt	4835			
d)	Working Pressure 10 Kg./Sq.cm					
	3 mm.	Rmt	214			
	5 mm.	Rmt	304			
	0 mm.	Rmt	433	11	2	
	10 mm.	Rmt	617			
	25 mm	Rmt	847			
	40 mm.	Rmt	995			
	60 mm.	Rmt	1302			
	80 mm.	Rmt	1794			
	00 mm.	Rmt	2220			
	25 mm.	Rmt	2830			
	50 mm.	Rmt	3580			
	80 mm.	Rmt	4500			
	15 mm.	Rmt	5717		8	
	We white Dressure 40 5 Kr (0					
	Working Pressure 12.5 Kg./Sq.cm		000			
	3 mm.	Rmt	269			
	5 mm.	Rmt	380			
	0 mm.	Rmt	552			
	10 mm.	Rmt	784		├ ───	
	25 mm	Rmt	1079		┞────┤	
	40 mm.	Rmt	1270		┞───┤	
	60 mm.	Rmt	1669		┞───┤	
	80 mm.	Rmt	2285			
	00 mm.	Rmt	2833		├	
	25 mm.	Rmt	3602			
	50 mm.	Rmt	4552		├	
	80 mm.	Rmt	5728			
	15 mm.	Rmt	7301	1	I	

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
1	2	3	4	1		5	ALL THE STREET
<u>3.</u>	Providing and supplying in <u>ISI mark rigid PVC-O class-500</u> s/s pipe (push on joints) pressure pipes confirming to IS specifications no 16647-2017 inclusive cost of EPDM gasket seals on joints including all statutory duties excluding GST levied by Government of India and Government of Maharashtra in all respect including third party inspection charges of agency approved by MJP, transit insurance loading, unloading charges conveyance to the departmental store / site and stacking the same in closed shade duly protected from sunrays etc complete.						
	Note :- a) 10% cost of pipe shall be considered for the cost of O-PVC/DI compatable specials for estimate purpose b) Diameter wise overlapping lengths are respectively, 110mm 2.92%, 160mm- 3.33%, 200mm 3.75%, 250mm 4.5%, 315mm 5.42%, 400mm 6.25%		5.	3			
	a) Class - 500 PN - 12.5						
i)	110 mm.	Rmt	565				
ii)	160 mm.	Rmt	976				
<u>iii)</u>	200 mm.	Rmt	1336				
iv)	250 mm.	Rmt	1831				
<u>v)</u> vi)	315 mm. 400 mm.	Rmt Rmt	2374 3659				-
vii)	450 mm.	Rmt	4303				
viii)	500 mm.	Rmt	4965				
ix)	560 mm.	Rmt	6619				
x)	630 mm.	Rmt	8418	<u>.</u>			1
~)	b) Class - 500 PN - 16		0110				
i)	110 mm.	Rmt	677				
ii)	160 mm.	Rmt	1135				1
iii)	200 mm.	Rmt	1407				
iv)	250 mm.	Rmt	1980				1
v)	315 mm.	Rmt	2495		_		
vi)	400 mm.	Rmt	3807				
vii)	450 mm.	Rmt	4883				
viii)	500 mm.	Rmt	6092	0) 1			
ix)	560 mm.	Rmt	7585				ļ
x)	630 mm.	Rmt	9609				ļ
10	c) Class - 500 PN - 25						ļ
i)	110 mm.	Rmt	844				ļ
ii)	160 mm.	Rmt	1227				ļ
iii)	200 mm.	Rmt	1669				ļ
iv)	250 mm.	Rmt	2335				ł
v)	315 mm.	Rmt	3641				ļ
vi)	400 mm.	Rmt	5523				ł
vii)	450 mm.	Rmt	6881				ł
viii)	500 mm.	Rmt	8517				ł
ix)	560 mm.	Rmt	10664				4
X)	630 mm.	Rmt	13485				l

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25	
1	2	3		4	Ę	5	19197 37
<u>4.</u>	Lowering, laying and jointing with P.V.C. pipes and specials of following class and diameter including cost of conveyance from stores to site of works including cost of all labour, material, except cement solvent, rubber ring, as per IS code, etc. complete (with cement solvent joint / ring fit joint).						
	a) Working Pressure 4 Kg/Sq.cm						
i)	63 mm.	Rmt	22				
ii)	75 mm.	Rmt	28				
iii)	90 mm.	Rmt	35		XIX		
iv)	110 mm.	Rmt	39	(
v)	125 mm.	Rmt	41		1		
vi)	140 mm.	Rmt	46	\sim /	V		1
vii)	160 mm.	Rmt	52	0			1
viii)	180 mm.	Rmt	57	-			1
xi)	200 mm	Rmt	62	11			
x)	225 mm	Rmt	72	1			1
xi)	250 mm	Rmt	77				1
xii)	280 mm	Rmt	85				1
xiii)	315 mm	Rmt	96				1
	b) Working Pressure 6 to 12.5 Kg./Sq.cm.						1
i)	63 mm.	Rmt	29				1
ii)	75 mm.	Rmt	39				1
iii)	90 mm.	Rmt	45				1
iv)	110 mm.	Rmt	50				1
v)	125 mm.	Rmt	54				1
vi)	140 mm.	Rmt	59				1
vii)	160 mm.	Rmt	63				1
viii)	180 mm.	Rmt	72				1
xi)	200 mm	Rmt	78				1
x)	225 n m	Rmt	85				
xi)	250 mm	Rmt	94				1
xii)	280 mm	Rmt	106				1
xiii)	315 mm	Rmt	118				1
xiv	400 mm	Rmt	130				1
xv	450 mm	Rmt	140				1
xvi	500 mm	Rmt	155				1
xvii	560 mm	Rmt	168				1
xviii	630 mm	Rmt	184	1			1

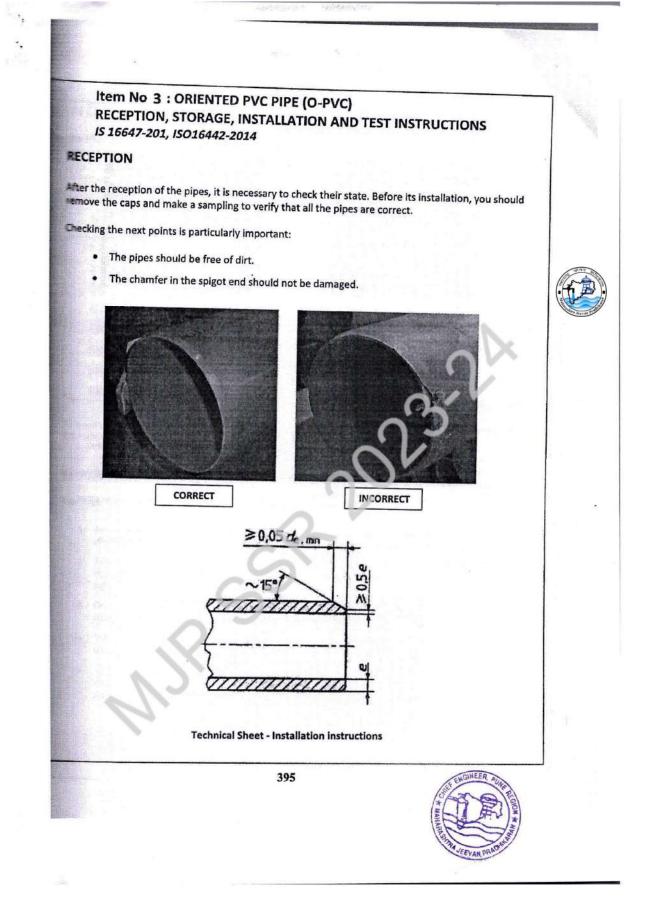
Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2	3		4		5	21.97
<u>5.</u>	pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position.				2		. Area
	a) Working Pressure 4 Kg/Sq.cm			6) V	P	
i)	63 mm.	Km	2779	Ψ.	1		ļ
ii)	75 mm.	Km	2779	0.1	V		
iii)	90 mm.	Km	4168	5			
iv)	110 mm.	Km	4168	~			
v)	125 mm	Km	4863	11			
vi)	140 mm.	Km	5556				-
vii)	160 mm.	Km	5556	· · · · ·			
viii)	180 mm.	Km	6946				
ix)	200 mm 225 mm	Km Km	6946 8335				-
x) xi)	250 mm	Km	8335				-
xii)	280 mm	Km	9724	· · · · ·			
xiii)	315 mm	Km	11113	ee	5 72	<u> </u>	
XIII)	b) Working Pressure 6 to 12.5 Kg./Sg.cm.	NII	1113	n			
i)	63 mm.	Km	2779				
ii)	75 mm.	Km	4168				
iii)	90 mm.	Km	5556				-
iv)	110 mm.	Km	5556				
v)	125 mm	Km	6251	0			
vi)	140 mm.	Km	6946				
vii)	160 mm.	Km	6946			<u> </u>	
viii)	180 mm.	Km	8335			<u> </u>	
ix)	200 mm	Km	8335		-	<u> </u>	
x)	225 mm	Km	9724			<u> </u>	
xi)	250 mm	Km	9724				
xii)	280 mm	Km	11113				
xiii)	315 mm	Km	12503				
xiv	400 mm	Km	12503				1
XV	450 mm	Km	13891				1
xvi	500 mm	Km	13891				
xvii	560 mm	Km	15280				}
xviii	630 mm	Km	16669				ł

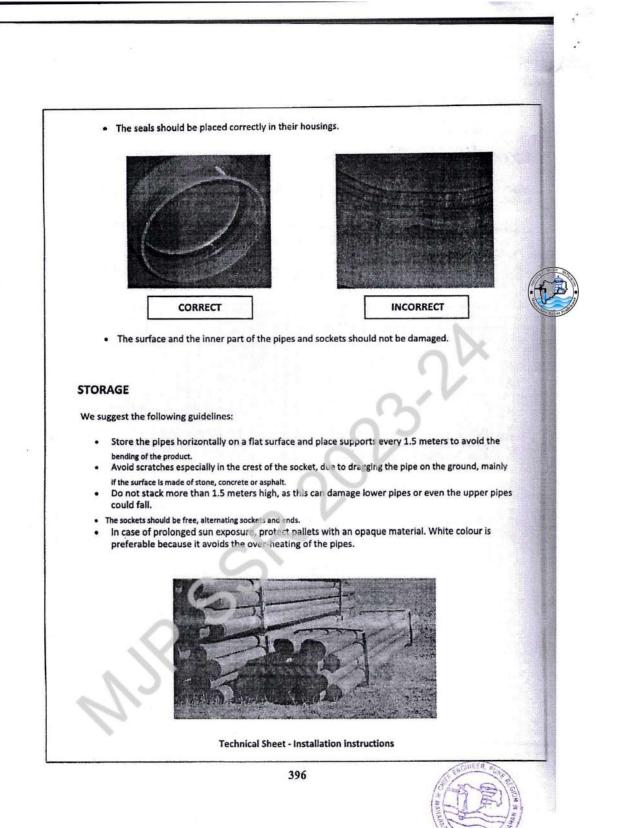
Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.)	2024-25	
1	2	3		4	5		जीवन आह
	 Only 85% rate shall be payable till satisfactory hydraulic testing is given. Third party inspecting agency shall invariably carry out. I) Specific Gravity Test. Weight / Rmt. III) Ash Content Test and confirm in writing that those are within prescribed limits. This condition shall appear in tender conditions. After receipt of pipes at site, concerned Deputy Engineer shall confirm that weight of pipe for every class and diameter is not less than the prescribed standard weight as per IS-4985/1998 (Which is given in CSR), Under weight pipes shall be rejected. This condition shall appear in the tender conditions. 				2		
6	Providing & Supply of PVC pipe specials for all class pipes.		\sim	5			
A	Tee 4 kg/Cm2						
	63 mm	1	48	/			
	75 mm		57				
	90 mm		112				
	110 mm		174				
	140 mm	0	374	-	C		
	160 mm		532				
	200 mm	0	1346				
В	Tee 6 kg/Cm2			2			
0.00	63 mm		29				
_	75 mm		39				
	90 mm		55				
	110 mm	<u> </u>	84	-			
	140 mm	<u> </u>	456				
-	160 mm		746				1
	180 mm		1158				ł
	200 mm		3359				1
с	Tee 10 kg/Cm2						1
	63 mm		34				1
	75 mm		53				1
	90 mm	<u> </u>	94				1
	110 mm		167				ł
	140 mm		1248				ł
	160 mm		2891				ł
	180 mm		4008				ł
	200 mm		4030				1
D	Elbow 4 kg/Cm2						1
			24				1
	63 mm 75 mm		33				-
	75 mm 90 mm		45				1
	ווווו טען		40				l

Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2			4	5		
]	110 mm		70				
	140 mm		264				
	160 mm		408				
	180 mm		706				
	200 mm		1147				
	Elbow 6 kg/Cm2						
	63 mm		24				
	75 mm		33				
	90 mm		45		-		
	110 mm		70			-	
	140 mm		332				
	160 mm		471	0			
	180 mm		893	-			
	Elbow 10 kg/Cm2			S /			
	63 mm		26				
	75 mm		40				
	90 mm		71				
	110 mm	1	126	1			
	S.Saddle	-		1			
	63 x20mm	0	43				
	75x20 mm		<i>5</i> 1				
	90x20 mm		61	1		-	
	110 x20 mm		70	() () () () () () () () () () () () () (
	140 x20 mm	-	227	6			
	160 x20 mm		254	1			
	End cap(plain)		100000	-			
	63 mm		9				
	75 mm		12				
	90 mm		19				
	110 mm		25				
	140 mm		119				
	160 mm		144	-			
	180 mm		201	6			
	200 nm		381				
	Reducer						
	75 ×63		18	-			
	90 x 75		24				
	63 x 90		24	-			
	75 x 110	+	37				
_	90 x 110	+	37				
			58				
	140 x 110		139				
	140 x 75		159				
	140 x 90	+	188				
	160 x 75		188				
	160 x 90						
]]	160 x 110		205				

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25		
1	2 160 x 140			4	5	;	
			221				
	200 x 110		456				
	200 x 160		468				
J	PVC Coupler 4 Kg/Cm2						
	63 mm		9				
	75 mm		14				
	90 mm		23				
	110 mm		35				
	140 mm		74				
	160 mm		105				
	180 mm		153				
	200 mm		218				
К	PVC Coupler 6 Kg/Cm2		a mad Boorbar	-	1		
	63 mm		14	n /	V		
	75 mm		20	10			
	90 mm		33				
	110 mm		54				
	140 mm	1	107	1			
	160 mm		150				
	180 mm		217				
	200 mm		300				
L	PVC Coupler 10 Kg/Cm2		-				
	63 mm		38				
	75 mm	-	60				
	90 mm		97				
	110 mm		150				
-	140 mm		317				
	160 mm		444				
	180 mm		570				
	200 mm		839				
М	PVC Bend 4 Kg/Cm2						
0.000	63 mm		27	-			
	75 mm		43				
	90 mm		68				
-	110 mm		122				
	140 mm		331				
	160 mm		550				
	180 mm		777	1			
	200 mm		1028	+			
N	PVC Bend 6 Kg/Cm2			+			
-	63 mm		38	+			
	75 mm		63				
	90 mm		102	+			
	110 mm		183				
	140 mm		474				
	160 mm		724	+			

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25]
1	2	3		4		an an and	
	180 mm		1083				(F B)
	200 mm		1442				
0	PVC Bend 10 Kg/Cm2						of the watter of the second se
	63 mm		103				1
	75 mm		156				1
	90 mm		269				1
	110 mm		437				1
	140 mm		1173				1
	160 mm		1666				1
	180 mm		2455		XX		1
	200 mm		3563				1
Р	PVC Tail Piece without flange 4 Kg/Cm2						1
	63 mm		19	01	V		1
	75 mm		31	0			1
	90 mm		48	-			1
	110 mm	1	80				1
	140 mm		159				1
	160 mm	\cap	229				1
	180 mm		306				1
	200 mm	V	430				1
Q	PVC Tail Piece without flange 6 Kg/Cm2	2					1
	63 mm		14				
	75 mm		24				1
	90 mm		31				
	110 mm		44				
	140 mm		68				1
	160 mm		85				
	180 mm		252				1
	200 mm		316				
R	PVC Tail Piece without flange 10 Kg/Cm2						1
1	63 mm		25				1
	75 mm		37				1
	90 mm		56				1
	110 mm		103				1
	140 mm		187				1
	160 mm		251				1
	180 mm		380				1
	200 mm		524				1





REALIZATION OF THE TRENCH

Minimum trench width:

The trench must be free of stones at the bottom and at the sides. Stones smaller than 10-20 mm are allowed, but they cannot be the main size of the ground particles.

DN (mm)	Minimum width of trench B(m)
90-250	0.60
315	0.85
355	1.00
400	1.10
450	1.15
500	1.20
630	1.35
800	1.65

Depth of trench H(m)	Minimum width of trench B(m)
h<1.00	0.60
1.00 <h<1.75< td=""><td>0.80</td></h<1.75<>	0.80
1.75 <h<4.00< td=""><td>0.90</td></h<4.00<>	0.90
H>4.00	1.00

As a rule of thumb, when there is no road traffic involved, the pipes' crown will be at a minimum depth of 0.6 meters; with road traffic, the minimum depth is 1 meter.

BEDDING AND FILLING THE TRENCH

Pipe must be installed in the following circumstances:

- 1. Before placing the pipe, a sand bed should be prepared (a fine granular material could be used instead of sand) with a thickness from 10 cm to 15 cm. The pipe should be well aligned and levelled.
- 2. The pipe must lie on the sand bed. It must be ensured that all the lower part of the pipe is settled on the sand bed trying to soak as much as possible in order to make the angle of sand that supports the kidneys of the pipe as big as possible.
- 3. Once the pipe is placed, chamberlain sides must be filled with the selected material and compacted to achieve >95% Proctor Normal.
- 4. The trench must be filled with the selected material and compacted laterally until the upper part of the pipe is builed at least 30 cm.
- 5. Steps 3 and 4 can be done with the same natural material obtained from the excavation, trying to avoid rocks and large stones, and checking that this natural material can support the forces produced by the pressure inside of the pipe.

Technical Sheet - Installation instructions





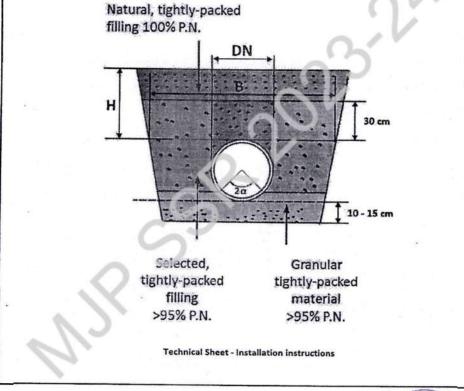
Natural soil can be used as the selected filler material whenever it fulfills the following criteria:

- a) The material cannot consist of angular stones or similar material.
- b) Filler material should not contain bigger particles than the ones shown in the following table.
- c) Filler material should not contain blocks of soil twice the size of the maximum dimensions of the particles given in the table.

Nominal diameter DN DN <100 100≤ DN <300 300≤ DN <600	Maximum size mm
DN <100	15
100≤ DN <300	20
300≤ DN <600	30
600≤ DN	40

Maximum particle size

From the 30 cm above the pipe until the surface of the ground, the trench can be filled with natural
material not specifically selected and compacting directly over the whole surface of the trench.





ASSEMBLY

- Remove the protection caps.
- Verify that the pipe is clean and in good condition. Paying attention to the sockets and spigot
- ends. Check that the chamfer is correct and free of cracks.
- Verify that the seal is in its place, clean and free of foreign materials (stones, sand, etc.).
- Lubricate the chamfer of the spigot and the seal with joint lubricant.
- Line up the pipe as much as possible horizontal and vertically.
- Insert only the chamfer edge of the socket, just to support the pipe but leaving the socket lip free.
- In the case of pipes with nominal diameter ≤250 mm, a firm and dry push should be given to seize the momentum produced by the free movement in the lip of the socket and introduce it until the mark is hidden into the socket.
 - When installing diameters >250mm, one should use mechanical means to introduce the pipe using materials such as wood, hoists, tackles or slings.



In the next table, you can find an approximated number of assemblies per diameter with 1kg of lubricant.

DN (mm)	90	110	140	160	200	225	250	315	355	400	450	500	630	800
Assemblies	87	76	54	46	34	32	30	25	21	17	16	14	12	9

PIPE CUTTING

Pipes can be cut transversally using a circular saw or a hacksaw. The resulting male cut ends should be chamfered in order to be entered manually in another socket pipe or fitting. The chamfer can be made with a circular saw and be reviewed later with a file. The chamfer should be approximately of 15º.

A mask must be worn to prevent dust inhalation and protections and safety measures must to be taken for cutting machines.

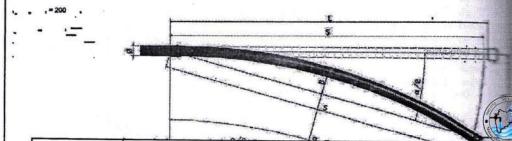
Pipes chamfered on-site are less accurate than those made at the factory. Because of that, they could require higher introduction efforts or even require simple mechanical means to place the spigot inside the socket.

Technical Sheet - Installation instructions



COLD BENDING OF PIPE (23º C)

The pipe can bend at room temperatures ($\pm 23^{\circ}$ C) in the trench up to the limits defined in the next table. These curves must to be done always in cold (don't heat any part of the pipe or socket) by manual efforms (you can use simple items to help in case of pipes DN> 250mm) and without damaging the geometry of the plugs.



		Pipe curvature			Angular deviation of the socket	Curvature + angular deviation (full angle) angular			
DN	L	R	α/2	A	angle	R'	α'/2	A'	
mm	m	m	degree S		degrees		degrees	m	
90	5,78	18	9,2	0,92	2	15	11,2	1,12	
110	5,78	22	7,5	0,75	2	17	9,5	0,95	
140	5,76	28	5,9	0,59	2	21	7,9	0,79	
160	5,75	32	5,1	0,52	2	23	7,1	0,71	
200	5,73	40	4,1	0,41	2	27	6,1	0,61	
225	5,70	45	3,6	0,36	2	29	5,6	0,56	
250	. 5,68	50	3,3	0,32	2	31 .	5,3	0,52	
315	5,63	63	2,6	0,25	2	35	4,6	0,45	
355	5,61	71	2,3	0,22	2	38	4,3	0,42	
400	5,58	80	2,0	0,19	2	40	4,0	0,39	
450	5,56	90	1,8	0,17	2	42	3,8	0,37	
500	5,58	100	1,6	0,16	2	44	3,6	0,35	
630	5,53	126	1,3	0,12	2	49	3,3	0,31	
800	5,42	160	1,0	0,09	2	52	3,0	0,28	

The pipes may be subjected to greater curvatures with high efforts, but it is not recommended to overcome these limits to avoid compromising the safety coefficient of the pipe.

Technical Sheet - Installation instructions



ANGULAR DEVIATION ALLOWED IN THE SOCKET

In addition to the curvature of the pipe, an angular deviation is allowed at the junction between pipes. Therefore in the final layout of the pipes, one can add both effects.

It is important not to exceed the established values of angular deviation in the socket-end when bending the pipe.

e alter and a second and a se

(1) Total length of the pipe: 5.95 meters.

	DN	Maximum angular deviation	Displacement in the socket (D)
L	mm	angle (°)	D(mm) ⁽¹⁾
L	90-800	2°	200

The pipe connections can be subject to greater angular deviations if subjected to high stresses. It's recommended not to exceed those limits in order to avoid endangering the safety coefficients of the assembly under pressure.

FORCES PRODUCED BY THE BENDING OF THE PIPE

The bent pipeline behaves like a narrow -angle curve; this means that there is some backpressure on the ground as the table below shows. These cross-pressures, under normal conditions, can be supported by a sufficiently compacted soil, otherwise, if necessary, they should be supported with anchors in excessive curvatures.

		F				
	bar	bar	bar	bar	bar	bar
DN	1	5	10	15	20	25
mm	kN	kN	kN	kN	kN	kN
90	0,10	0,51	1,02	1,53	2,04	2,55
110	0,12	0,62	1,25	1,87	2,49	3,12
140	0,16	0,79	1,58	2,37	3,17	3,96
160	0,18	0,90	1,81	2,71	3,61	4,51
200	0,22	1,12	2,25	3,37	4,50	5,62
225	0,25	1,26	2,52	3,78	5,04	6,29
250	0,28	1,39	2,79	4,18	5,58	6,97
315	0,35	1,74	3,48	5,22	6,96	8,70
355	0,39	1,96	3,91	5,87	7,82	9,78
400	0,44	2,19	4,38	6,57	8,76	10,96
450	0,49	2,46	4,91	7,37	9,82	12,28
500	0,55	2,74	5,48	8,22	10,96	13,69
630	0,68	3,42	6,84	10,26	13,68	17,10
800	0,85	4,26	8,51	12,77	17,03	21,28

(2) Resultant forces in a pipe 5.95 meters long.

Technical Sheet Installation Instructions



PRESSURE TEST AT WORKS

On-site testing should be performed according to local regulations and instructions laid down in the project.

During the assembly, the pipe installed should be tested in sections fully executed (the length may vary between 500 and 1.000 meters). The ends of the sections should be closed with appropriate fittings when being tested.

- Two main aspects must to be taken into account: When the assembly are exposed, the watertightness of the network should checked, to see if there is any leak in such unions and locate them in case they exist. Except the cases of seal expulsion due to over-pressures or excessive angular deflections, leaks are manifested especially at very low pressures.
- On the other hand, for testing high-pressure pipes and fittings, they must be properly anchored (reductions, changes in direction, junctions, valves, cutting, etc.) and the pipes should be conveniently set in the trench (burial and compaction landfill). Otherwise, pipes and fittings could be unplugged by landslides in the field.

Therefore, it is recommended to test one of the following methods:

Method A:

Burying the pipe conveniently with enough compaction to be able to with stand the stresses caused by the pressure of the test, but leaving assemblies uncovered (in some circumstinces it is difficult to anchor pipes and fittings, leaving the unions visible). Any reductions, changes in direction, junctions and shutoff valves must be properly anchored.

Under these conditions, all pressure and leakage tests can be performed observing the uncovered unions and spot the appearance of leaks.

Method B:

Perform a shallower anchorage of pipes and fittings, leaving assemblies out of any possible problems. Doing a first leak test by filling the line with water and observe that there are no water losses at the unions (most of the leaks occur at low pressures). In case of leaks, the reparation would be easier than with the fully anchored and buried pipes.

If required by local regulations, you could anchor the pipes and accessories conveniently for testing high pressure, keeping the assemblies exposed. If not, you can complete the burial of pipes and fittings with the correct compaction, thus facilitating the necessary anchorage for the high pressure test.

The pressures and time limits to test the pipes on-site are:

	Pressure	Maximum Time	Pressure	Maximum Time	
PN16	Up to 21 bars	120 minutes	21 - 22.4 bars	60 minutes	
PN20	Up to 25 bars	120 minutes	25 28 bars	60 minutes	
PN25	Up to 30 bars	120 minutes	30 - 35 bars	60 minutes	

Technical Sheet - Installation instructions

PIPE OVERLAPE

Pipes are of standard length of 6.00 m length, but during laying the following overlaps have to be considered for net reduction in standard pipe length. The standard overlaps are defined in the next table and may be considered for estimating actual pipe lengths as below:

			200	212	400	450	500	560	630
Overlap % 2.92	3.35	3.75	4.50	5.42	6.25	64	6.5	715	7 75

EFFECT OF TEMPERATURE

When the temperature is high, plastic pipes undergo a loss of mechanical properties and we must take this into account. Because of that, we must avoid the following conditions during pressure tests:

- Pipe partially or fully exposed to weathering (line uncovered).
- High outside temperature.

determined by the Project Manager.

- Standing water inside the pipe.
- Prolonged sun exposure prior to the test.

All these circumstances may increase the temperature of the pipe above its operating temperature, so the overpressure test can damage the pipeline. In order to avoid that, it is recommended to:

Temperature Ratio Graph

40

TEMPERATURE C

50

1.2 1.1 1

0.9

8.0

0.7

0.6

0.5

20

30

- Cover the pipe once the tightness of the network is verified.
- Wait for pressure testing when the pipe has been exposed to sunlight.

High temperatures (over 25%) or demanding or aggressively of cations can reduce Allowable Operating Pressure (PFA) of lipes comparison to the Nomina Pressure (NP).

 $\label{eq:product} PFA = PN \cdot f_{\tau} \cdot f_{s}$ The derating factor (f_i) as function of operative ten perature can be obtained from the graph on the right. The deroting factor related to application on the system (f_i) must be

Note: Project design an ex aution is responsibility of the Project Manager and the Conuncton, respectively.

Technical Sheet - Installation instructions



SECTION - I (III) G.I. PIPES

Sr.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.)	2024-25
No.	-					
1	2	3		5		
<u>III.</u> 1.	G. I. PIPES Providing <u>ISI mark G.I. pipe</u> of following class and					
1.	dia. excluding GST levied by GOI & GOM in all					
	respect, inspection charges, transportation to stores,					
	etc. complete as per IS-1239/2004.					
	Note : One coupler shall be provided with each full length of pipe cost of which is included in					
	rates below.					
<u>a)</u>	LIGHT					
i)	15 mm. (0.96 kg./m)	Rmt	88			
ii)	20 mm. (1.42 kg./m)	Rmt	131			
iii)	25 mm. (2.03 kg./m)	Rmt	179			Ř.
iv)	32 mm. (2.61 kg./m)	Rmt	228			
V)	40 mm. (3.29 kg./m)	Rmt	285		1	
vi)	50 mm. (4.18 kg./m)	Rmt	348	1		
vii)	65 mm. (5.92 kg./m)	Rmt	479			
viii)	80 mm. (6.98 kg./m)	Rmt	575			
ix)	100 mm.(10.20 kg./m)	Rmt	815	-		
b)	MEDIUM	0	$\cdot \nu$	<u> </u>		
i)	15 mm. (1.23 kg./m)	Rmt	105			
ii)	20 mm. (1.59 kg./m)	Rmt	135			
iii)	25 mm. (2.40 kg./m)	Rmt	206			
iv)	32 mm. (3.17 kg./m)	Rmt	259			
v)	40 mm. (3.65 kg./m)	Rmt	299			
vi)	50 mm. (5.16 kg./m)	Rmt	413			
vii)	65 mm. (6.63 kg./m)	Rmt	524			
viii)	80 mm. (8.64 kg./m)	Rmt	689			
ix)	100 mm. (12.40 kg./m)	Rmt	981			
xx)	125 mm (16.70 kg/m)	Rmt	1336			
xxi)	150 mm.(19.70 kg/m)	Rmt	1571			
~~)	130 mm.(19.70 kg./m)	IXIII	1571			
<u>c)</u>	HEAVY					
<u>c)</u>	15 mm. (1.46 kg./m)	Rmt	120			
i)	20 mm. (1.91 kg./m)		154			
ii)		Rmt				
iii)	25 mm. (2.99 kg./m)	Rmt	241			
iv)	32 mm. (3.97 kg./m)	Rmt	305			
v)	40 mm. (4.47 kg./m)	Rmt	354			
vi)	50 mm. (6.24 kg./m)	Rmt	490			
vii)	65 mm. (8.02 kg./m)	Rmt	630			
viii)	80 mm.(10.30 kg./m)	Rmt	805			
ix)	100 mm.(14.70 kg./m)	Rmt	1163			
x)	125 mm(18.30 kg/m)	Rmt	1439			
xi)	150 mm (21.80 kg./m)	Rmt	1729			

Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25	
1	2	3		5		
<u>2.</u>	Lowering, laying and jointing G. I. pipes and specials of following class and diameter including conveyance from stores to site of works, all labour, etc. complete either underground or in vertical position, as directed by Engineer-in-charge.					
<u>a)</u>	LIGHT					
i)	15 mm.(0.96 kg./m)	Rmt	32			
ii)	20 mm. (1.42 kg./m)	Rmt	36			
iii)	25 mm. (2.03 kg./m)	Rmt	45		0.	
iv)	32 mm. (2.61 kg./m)	Rmt	50			
v)	40 mm. (3.29 kg./m)	Rmt	62			
vi)	50 mm. (4.18 kg./m)	Rmt	75			
vii)	65 mm. (5.92 kg./m)	Rmt	109		1	
viii)	80 mm. (6.98 kg./m)	Rmt	120	11	V	
ix)	100 mm.(10.20 kg./m)	Rmt	144	les.		
			0			
<u>b)</u>	MEDIUM					
i)	15 mm.(1.23 kg./m)	Rmt	35	2		
ii)	20 mm.(1.59 kg./m)	Rmt	38			
iii)	25 mm. (2.40 kg./m)	Rmt	46			
iv)	32 mm. (3.17 kg./m)	Rmt	53			
v)	40 mm. (3.65 kg./m)	Rmt	69			
vi)	50 mm. (5.16 kg./m)	Rmt	81			
vii)	65 mm. (6.63 kg./m)	Rmt	118			
viii)	80 mm. (8.64 kg./m)	Rmt	132			
ix)	100 mm.(12.40 kg./m)	Rmt	144			
x)	125 mm(16.70 kg/m)	Rmt	155			
xi)	150 mm.(19.70 kg./m)	Rmt	161			
<u>c)</u>	HEAVY					
i)	15 mm.(1.46 kg./m)	Rmt	37			
ii)	20 mm.(1.91 kg./m)	Rmt	41			
iii)	25 mm. (2.99 kg./m)	Rmt	49			
iv)	32 mm. (3.97 kg./m)	Rmt	57			
v)	40 mm. (4.47 kg./m)	Rmt	73			
vi)	50 mm. (6.24 kg./m)	Rmt	91			
vii)	65 mm.(8.02 kg./m)	Rmt	127			
viii)	80 mm.(10.30 kg./m)	Rmt	155			
ix)	100 mm.(14.70 kg./m)	Rmt	144			
x)	125 mm(18.30 kg/m)	Rmt	160			
xi)	150 mm (21.80 kg./m)	Rmt	172			
	Note : Only 85% rate shall be payable till					

r. o.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25
1	2	3		5		
<u>3</u>	<u>Hydraulic testing of G. I. pipe line</u> to specified pressure including cost of all materials and labour and water for testing for the length upto 1km using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour operation charges etc. required for testing, The rates under this item shall also include cost of retesting if necessary and reinstating to original postion.			-		
)	<u>LIGHT</u>					
)	15 mm. (0.96 kg./m)	Km	2779		N	
i)	20 mm. (1.42 kg./m)	Km	4168			
i)	25 mm. (2.03 kg./m)	Km	4168			
/)	32 mm. (2.61 kg./m)	Km	5556			
')	40 mm.(3.29 kg./m)	Km	6946	S 1		
i)	50 mm.(4.18 kg./m)	Km	8335	les.		
ii)	65 mm. (5.92 kg./m)	Km	12503			
ii)	80 mm.(6.98 kg./m)	Km	13891	1		
()	100 mm.(10.20 kg./m)	Km	15280	k.		
)	MEDIUM	$\left(\cdot \right)$				
)	15 mm. (1.23 kg./m)	Km	4168			
, i)	20 mm. (1.59 kg./m)	Km	4168			
i)	25 mm. (2.40 kg./m)	Km	5556			
/)	32 mm. (3.17 kg./m)	Km	5556			
<i>,</i> ,	40 mm. (3.65 kg./m)	Km	6946			
; i)	50 mm. (5.16 kg./m)	Km	8335			
; ii)	65 mm. (6.63 kg./m)	Km	12503			
,	80 mm. (8.64 kg./m)	Km	13891			
()	100 mm. (12.40 kg./m)	Km	15280			
, ()	125 mm (16.70 kg/m)	Km	16669			
i)	150 mm.(19.70 kg./m)	Km	18059			
<u>)</u>	HEAVY 15 mm (1.46 kg/m)	1/	4100			
)	15 mm. (1.46 kg./m)	Km	4168			
)	20 mm.(1.91 kg./m) 25 mm.(2.99 kg./m)	Km	4168			
)		Km	5556 6946			
/) /)	32 mm. (3.97 kg./m) 40 mm. (4.47 kg./m)	Km	6946 8335			
1	40 mm. (4.47 kg./m) 50 mm. (6.24 kg./m)	Km Km	8335 9724			
<i>,</i>	JOU HIIII. (U.24 KY./III)					
		k m				1
i) ii)	65 mm. (8.02 kg./m)	Km	13891			
i) i) ii)	65 mm.(8.02 kg./m) 80 mm.(10.30 kg./m)	Km	16669			
/ i) ii) ii) <) <)	65 mm. (8.02 kg./m)					



SECTION - I (IV)

D.I. SPECIALS & D.I. MECHANICAL JOINTS

r. o.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	(IV) D.I. Specials & D.I. Mechnical Joints :			
<u>1</u>	D.I. Socket and flanged fittings :-Providing and supplying <u>D.I.</u> <u>fitting with ISI mark</u> socket pushon joints or flanged joints confirming to table 12 to 31 of IS 9523/2000 upto latest amendments including cost of SBR/ EDPM tyton rings. Fittings should be with internally ordinary portland cement mortor lined and externally metallic zinc coating/zinc rich paint with finishing layer of black bitumen coating including transportation & excluding all statutary duties and taxes such as GST levied by			
	Gol and GoM in all respect etc. complete.			
	Diameter in mm	Unit		
-	Double socket bend 90 degree	Unit		\sim
<u>.</u>	80 mm dia	Nos	1423	
	100 mm dia	Nos	1774	2
	150 mm dia	Nos	3196	
	200 mm dia	Nos	4064	
	250 mm dia	Nos	7770	
	300 mm dia	Nos	10783	
	350 mm dia	Nos	15231	
	400 mm dia	Nos	20133	
	450 mm dia	Nos	26259	
	500 mm dia	Nos	33107	
	600 mm dia	Nos	53755	
	700 mm dia	Nos	83537	
	Double socket bend 45 degree	1103	00007	
	80 mm dia	Nos	1318	
	100 mm dia	Nos	1598	
	150 mm dia	Nos	2471	
	200 mm dia	Nos	4200	
	250 mm dia	Nos	5912	
	300 mm dia	Nos	8276	
	350 mm dia	Nos	11380	
	400 mm dia	Nos	14881	
	450 mm dia	Nos	18905	
	500 mm dia	Nos	23265	
	600 mm dia	Nos	35434	
	700 mm dia	Nos	54124	
đ	Double socket bend 22.50 degree	1100	01121	
	80 mm dia	Nos	1153	
h.,	100 mm dia	Nos	1481	
	150 mm dia	Nos	2297	
-	200 mm dia	Nos	3545	
	250 mm dia	Nos	4814	
	300 mm dia	Nos	7095	
	350 mm dia	Nos	9356	
	400 mm dia	Nos	11604	
	450 mm dia	Nos	14881	
	500 mm dia	Nos	18254	
	600 mm dia	Nos	28274	
	700 mm dia	Nos	42447	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
IV	Double socket bend 11.25 degree			
	80 mm dia	Nos	1153	
	100 mm dia	Nos	1423	
	150 mm dia	Nos	2122	
	200 mm dia	Nos	3370	
	250 mm dia	Nos	4670	
	300 mm dia	Nos	6289	
	350 mm dia	Nos	7459	
	400 mm dia	Nos	10066	
	450 mm dia	Nos	13305	
	500 mm dia	Nos	16106	~
	600 mm dia	Nos	23623	\sim
	700 mm dia	Nos	34110	
V	Double socket concentric reducer			1
	100 x 80 mm dia	Nos	1318	
	150 x 80 mm dia	Nos	2122	
	150 x 100 mm dia	Nos	2297	1
	200 x 80 mm dia	Nos	3294	
	200 x 100 mm dia	Nos	3294	
	200 x 150 mm dia	Nos	3495	
	250 x 80 mm dia	Nos	4560	
	250 x 100 mm dia	Nos	4389	
	250 x 150 mm dia	Nos	4843	
	250 x 200 mm dia	Nos	4670	
	300 x 100 mm dia	Nos	6417	
	300 x 150 mm dia	Nos	6589	
	300 x 200 mm dia	Nos	6465	
	300 x 250 mm dia	Nos	6080	
	350 x 200 mm dia	Nos	8998	
	350 x 250 mm dia	Nos	8762	
	350 x 300 mm dia	Nos	8643	
	400 x 200 mm dia	Nos	11904	
	400 x 250 mm dia	Nos	10852	
	400 x 300 mm dia	Nos	10505	
	400 x 350 mm dia	Nos	9356	
	450 x 350 mm dia	Nos	12604	
	450 x 400 mm dia	Nos	11604	
-1	500 x 350 mm dia	Nos	17022	
_	500 x 400 mm dia	Nos	16106	
	500 x 450 mm dia	Nos	15209	
	600 x 300 mm dia	Nos	25769	
-	600 x 350 mm dia	Nos	26522	
	600 x 400 mm dia	Nos	25052	
	600 x 450 mm dia	Nos	23055	
	600 x 450 mm dia	Nos	24338	
	700 x 450 mm dia		42237	
		Nos		
	700 x 500 mm dia	Nos	37581	
	700 x 600 mm dia	Nos	40032	
	800 x 600 mm dia	Nos	52422	

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Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in R 2024-2
1	2	3	4	5
<u>VI</u>	All Socket Tee			
	80 x 80 mm dia	Nos	1948	
	100 x 80 mm dia	Nos	2297	
	100 x 100 mm dia	Nos	2471	
	150 x 80 mm dia	Nos	3294	
	150 x 100 mm dia	Nos	3545	
	150 x 150 mm dia	Nos	4070	
	200 x 80 mm dia	Nos	4619	
	200 x 100 mm dia	Nos	4967	
	200 x 150 mm dia	Nos	5667	
	200 x 200 mm dia	Nos	6593	X
	250 x 80 mm dia	Nos	6250	V -
	250 x 100 mm dia	Nos	6639	<i></i>
	250 x 150 mm dia	Nos	7190	
	250 x 200 mm dia	Nos	8446	
	250 x 250 mm dia	Nos	9628	
	300 x 80 mm dia	Nos	7913	
	300 x 100 mm dia	Nos	8087	
	300 x 150 mm dia	Nos	9711	
	300 x 200 mm dia	Nos	10783	
	300 x 250 mm dia	Nos	11824	
	300 x 300 mm dia	Nos	13174	
	350 x 80 mm dia	Nos	10152	
	350 x 100 mm dia	Nos	10328	
	350 x 150 mm dia	Nos	11904	
	350 x 200 mm dia	Nos	13128	
	350 x 250 mm dia	Nos	15756	
	350 x 300 mm dia	Nos	17506	
	350 x 350 mm dia	Nos	17856	
	400 x 80 mm dia	Nos	12780	
	400 x 100 mm dia	Nos	12604	
	400 x 150 mm dia	Nos	15756	
	400 x 200 mm dia	Nos	16106	
	400 x 250 mm dia	Nos	18382	
	400 x 300 mm dia	Nos	20601	
	400 x 400 mm dia	Nos	22760	
1.4	450 x 100 mm dia	Nos	15756	
1	450 x 150 mm dia	Nos	18382	
-	450 x 200 mm dia	Nos	20133	
	450 x 250 mm dia	Nos	20957	
	450 x 300 mm dia	Nos	23444	
	450 x 350 mm dia	Nos	26259	
	450 x 400 mm dia	Nos	28887	
	450 x 450 mm dia	Nos	29412	
	500 x 100 mm dia	Nos	19226	
	500 x 150 mm dia	Nos	22370	
	500 x 200 mm dia	Nos	23265	
	500 x 250 mm dia	Nos	26843	
	500 x 300 mm dia	Nos	28634	
	500 x 400 mm dia	Nos	33107	

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Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in R 2024-2
1	2	3	4	5
VII	Double Socket Tee with Flange branch-PN-10			
	80 x 80 mm dia	Nos	2418	
	100 x 80 mm dia	Nos	2589	
	100 x 100 mm dia	Nos	2762	
	150 x 80 mm dia	Nos	3625	
	150 x 100 mm dia	Nos	3711	
	150 x 150 mm dia	Nos	4661	
	200 x 80 mm dia	Nos	5005	
	200 x 100 mm dia	Nos	5350	
	200 x 150 mm dia	Nos	6214	
	200 x 200 mm dia	Nos	7164	X
	250 x 80 mm dia	Nos	6547	V
	250 x 100 mm dia	Nos	6636	<i>x</i>
	250 x 150 mm dia	Nos	8139	1
	250 x 200 mm dia	Nos	9201	
	250 x 250 mm dia	Nos	10616	
	300 x 80 mm dia	Nos	8494	
	300 x 100 mm dia	Nos	8848	
	300 x 150 mm dia	Nos	10086	
	300 x 200 mm dia	Nos	11502	
	300 x 250 mm dia	Nos	13096	
	300 x 300 mm dia	Nos	14156	
	350 x 80 mm dia	Nos	10635	
	350 x 100 mm dia	Nos	10821	
	350 x 150 mm dia	Nos	12836	
	350 x 200 mm dia	Nos	13937	
	350 x 250 mm dia	Nos	16508	
	350 x 300 mm dia	Nos	20173	
	350 x 350 mm dia	Nos	20907	
	400 x 80 mm dia	Nos	12836	
	400 x 100 mm dia	Nos	13388	
	400 x 150 mm dia	Nos	14673	
	400 x 200 mm dia	Nos	16872	
	400 x 250 mm dia	Nos	20173	
	400 x 300 mm dia	Nos	20907	
	400 x 400 mm dia	Nos	26594	
1.1	450 x 80 mm dia	Nos	15956	
1	450 x 100 mm dia	Nos	16139	
-	450 x 150 mm dia	Nos	17973	
	450 x 200 mm dia	Nos	19806	
1	450 x 250 mm dia	Nos	22009	
	450 x 300 mm dia	Nos	24575	
	450 x 350 mm dia	Nos	31177	
	450 x 400 mm dia	Nos	31361	
	450 x 450 mm dia	Nos	31932	
	500 x 80 mm dia	Nos	19121	
	500 x 100 mm dia	Nos	19310	
	500 x 150 mm dia	Nos	23060	
	500 x 200 mm dia	Nos	23623	
	500 x 250 mm dia	Nos	28121	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	500 x 300 mm dia	Nos	28871	
	500 x 400 mm dia	Nos	33934	
VIII	Flange Socket-PN-10			
	80 mm dia	Nos	1243	
	100 mm dia	Nos	1398	
	150 mm dia	Nos	2174	
	200 mm dia	Nos	3259	
	250 mm dia	Nos	4286	
	300 mm dia	Nos	5626	
	350 mm dia	Nos	7538	
	400 mm dia	Nos	9252	1
	450 mm dia	Nos	10365	\sim
	500 mm dia	Nos	12612	
	600 mm dia	Nos	18392	£
	700 mm dia	Nos	31784	
IX	Flange Spigot-PN-10		0	
<u> </u>	80 mm dia	Nos	1225	
	100 mm dia	Nos	1543	
	150 mm dia	Nos	2471	
	200 mm dia	Nos	3547	
	250 mm dia	Nos	5007	
	300 mm dia	Nos	6400	
	350 mm dia	Nos	9409	
	400 mm dia	Nos	10728	
	450 mm dia	Nos	13698	
	500 mm dia	Nos	12567	
	600 mm dia	Nos	26321	
	700 mm dia	Nos	39669	
X	Blank Flange -PN-1			
	80 mm dia	Nos	636	
	100 mm dia	Nos	770	
	150 mm dia	Nos	1274	
	200 mm dia	Nos	1750	
	250 mm dia	Nos	2772	
	300 mm dia	Nos	3982	
	350 mm dia	Nos	5690	
1	400 mm dia	Nos	7069	
- 1	450 mm dia	Nos	9654	
	500 mm dia	Nos	11444	
	600 mm dia	Nos	16551	
1	700 mm dia	Nos	34427	
XI	Double Flange Bend 90 Deg -PN-'10		_	
	80 mm dia	Nos	1579	
	100 mm dia	Nos	1895	
	150 mm dia	Nos	3409	
	200 mm dia	Nos	4968	
	250 mm dia	Nos	8832	
	300 mm dia	Nos	11949	
	350 mm dia	Nos	15718	
	400 mm dia	Nos	20157	+

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
	450 mm dia	Nos	29043	
	500 mm dia	Nos	32102	
	600 mm dia	Nos	51644	
	700 mm dia	Nos	98958	
XII	Double Flange Bend 45 Deg -PN-10			
	80 mm dia	Nos	1499	
	100 mm dia	Nos	1895	
	150 mm dia	Nos	2997	
	200 mm dia	Nos	4341	
	250 mm dia	Nos	6605	
	300 mm dia	Nos	12415	1
	350 mm dia	Nos	13155	\sim
	400 mm dia	Nos	16742	1
	450 mm dia	Nos	20499	*
	500 mm dia	Nos	32230	
	600 mm dia	Nos	47926	
	700 mm dia	Nos	68369	
XIII	Double Flange Duck Foot Bend -PN-10	1100		
	80 mm dia	Nos	2513	
	100 mm dia	Nos	3140	
	150 mm dia	Nos	5415	
	200 mm dia	Nos	8497	
	250 mm dia	Nos	13577	
	300 mm dia	Nos	18888	
	350 mm dia	Nos	27539	
	400 mm dia	Nos	34005	
	450 mm dia	Nos	48170	
	500 mm dia	Nos	61349	
	600 mm dia	Nos	85914	
	700 mm dia	Nos	150049	
XIV	All Flange Tee -PN-10	1103	100040	
<u> </u>	80 x 80 mm dia	Nos	2525	
	100 x 80 mm dia	Nos	2840	
	100 x 100 mm dia	Nos	2997	-
	150 x 80 mm dia	Nos	4418	
	150 x 100 mm dia	Nos	4576	
	150 x 150 mm dia	Nos	5050	
-1	200 x 80 mm dia	Nos	6469	+
	200 x 100 mm dia	Nos	6818	
-	200 x 150 mm dia		7102	
	200 x 150 mm dia	Nos Nos	7733	
-	250 x 80 mm dia	Nos	8781	+
	250 x 80 mm dia	Nos	10508	
	250 x 150 mm dia		9968	
	250 x 150 mm dia	Nos	12286	
	250 x 250 mm dia	Nos	12286	
	300 x 80 mm dia	Nos		
	300 x 80 mm dia	Nos	10528	
		Nos	13999	
	300 x 150 mm dia	Nos	12292 15356	





Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
	300 x 250 mm dia	Nos	15039	
	300 x 300 mm dia	Nos	18267	
	350 x 80 mm dia	Nos	15575	
	350 x 100 mm dia	Nos	19133	
	350 x 150 mm dia	Nos	17856	
	350 x 200 mm dia	Nos	20090	
	350 x 250 mm dia	Nos	21605	
	350 x 300 mm dia	Nos	23401	
	350 x 350 mm dia	Nos	26137	
	400 x 80 mm dia	Nos	18732	
	400 x 100 mm dia	Nos	23807	1
	400 x 150 mm dia	Nos	21386	
	400 x 200 mm dia	Nos	24771	¥
	400 x 250 mm dia	Nos	25808	1
	400 x 300 mm dia	Nos	26990	
	400 x 400 mm dia	Nos	29043	
	450 x 100	Nos	30248	
	450 x 150 mm dia	Nos	24209	
	450 x 200 mm dia	Nos	31775	
	450 x 250 mm dia	Nos	28671	
	450 x 300 mm dia	Nos	29799	
	450 x 350 mm dia	Nos	34165	
	450 x 400 mm dia	Nos	34103	
	450 x 450 mm dia	Nos	38437	
	500 x 100 mm dia	Nos	36639	
	500 x 150 mm dia	Nos	37162	
	500 x 150 mm dia	Nos	37511	
	500 x 250 mm dia	Nos	38383	
	500 x 250 mm dia	Nos	46053	
	500 x 500 mm dia	Nos	46733	
	500 x 400 mm dia	Nos	50921	
	600 x 100 mm dia			
		Nos	60485	_
	600 x 150 mm dia	Nos	61112	
	600 x 200 mm dia	Nos	60620	
	600 x 250 mm dia	Nos	64902	
	600 x 300 mm dia 600 x 400 mm dia	Nos	62906	
		Nos	65354	
_	600 x 500 mm dia	Nos	65404	
VI.	600 x 600 mm dia	Nos	72301	
<u>XV</u>	Double Socket Level Invert Flange Branch Tee PN10		4700	
	200 x 80 mm dia	Nos	4762	
	250 x 80 mm dia	Nos	6209	
	300 x 80 mm dia	Nos	8286	
	350 x 80 mm dia	Nos	10354	
	350 x 100 mm dia	Nos	11321	
	400 x 100 mm dia	Nos	13538	1
	450 x 80 mm dia	Nos	16457	1
	450 x 100 mm dia	Nos	16806	
	500 x 80 mm dia	Nos	18873	1
	500 x 100 mm dia	Nos	20660	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
<u>XVI</u>	Сар			
	80 mm dia	Nos	602	
	100 mm dia	Nos	777	
	150 mm dia	Nos	1377	
	200 mm dia	Nos	2453	
	250 mm dia	Nos	2950	
	300 mm dia	Nos	4650	
	350 mm dia	Nos	7523	
	400 mm dia	Nos	9813	
	450 mm dia	Nos	12429	
	500 mm dia	Nos	15214	10
	600 mm dia	Nos	21233	\sim
	700 mm dia	Nos	37671	
XVII	Plug			2
	80 mm dia	Nos	441	
	100 mm dia	Nos	754	
	150 mm dia	Nos	1339	
	200 mm dia	Nos	2073	
	250 mm dia	Nos	2867	
	300 mm dia	Nos	4521	
	350 mm dia	Nos	-	
	400 mm dia	Nos		
	450 mm dia	Nos		
	500 mm dia	Nos	7195 8504 11261 13709 20300	
	600 mm dia	Nos	-	
	D.I. FITTINGS (Mechanical Joints)			
<u>1.</u>	Providing and supplying D.I. fittings with <u>ISI mark Mechanical</u> <u>joint</u> confirming to tables 12 to table 31 of IS 9523/2000 upto latest amendments including cost of SBR/ EDPM gaskets, Nuts, Bolts, Washers and Ductile iron follower glands. Fittings should be with internally Ordinary portland cement mortor lined and externally metallic zinc coating/zinc rich paint with finishing layer of black bitumen coating including transportation and excluding all statutary duties and taxes such as GST levied by Gol and GoM in all respect etc. complete.			
T	MJ Collar/Coupling			
1	80 mm dia	Nos	2736	
	100 mm dia	Nos	2990	
-	150 mm dia	Nos	3658	
	200 mm dia	Nos	6540	
	250 mm dia	Nos	8653	
	300 mm dia	Nos	11215	
	350 mm dia	Nos	15867	
	400 mm dia	Nos	19852	
	450 mm dia	Nos	22977	
	500 mm dia	Nos	29696	
	600 mm dia	Nos	37508	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
Ш	Double Socket Bend 90 degree			
	80 mm dia	Nos	1608	
	100 mm dia	Nos	2026	
	150 mm dia	Nos	3493	
	200 mm dia	Nos	5240	
	250 mm dia	Nos	7427	
	300 mm dia	Nos	9925	
	350 mm dia	Nos	14446	
	400 mm dia	Nos	18600	
	450 mm dia	Nos	24059	
	500 mm dia	Nos	27439	36
	600 mm dia	Nos	40078	~
Ш	Double Socket Bend 45 degree			F
_	80 mm dia	Nos	1608	
	100 mm dia	Nos	1886	
	150 mm dia	Nos	2951	
	200 mm dia	Nos	4505	
	250 mm dia	Nos	6059	
	300 mm dia	Nos	8471	
	350 mm dia	Nos	12596	
	400 mm dia	Nos	16074	
	450 mm dia	Nos	18378	
	500 mm dia	Nos	21406	
	600 mm dia	Nos	30743	
<u>IV</u>	Double Socket Bend 22.5 degree			
	80 mm dia	Nos	1485	
	100 mm dia	Nos	1886	
	150 mm dia	Nos	2828	
	200 mm dia	Nos	4036	
	250 mm dia	Nos	5379	
	300 mm dia	Nos	7528	
	350 mm dia	Nos	10896	
	400 mm dia	Nos	13292	
	450 mm dia	Nos	16692	
	500 mm dia	Nos	19925	
1	600 mm dia	Nos	25730	
V	Double Socket Bend 11.25 degree			
	80 mm dia	Nos	1485	1
	100 mm dia	Nos	1950	
	150 mm dia	Nos	2689	
	200 mm dia	Nos	3895	1
	250 mm dia	Nos	5116	
	300 mm dia	Nos	6863	
	350 mm dia	Nos	9428	
	400 mm dia	Nos	12133	1
	450 mm dia	Nos	15714	1
	500 mm dia	Nos	18779	1
	600 mm dia	Nos	23340	1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
VI	Double socket concentric reducer			
	100 x 80 mm dia	Nos	2417	
	150 x 80 mm dia	Nos	3483	
	150 x 100 mm dia	Nos	3795	
	200 x 80 mm dia	Nos	4900	
	200 x 100 mm dia	Nos	4917	
	200 x 150 mm dia	Nos	5470	
	250 x 80 mm dia	Nos	6407	
	250 x 100 mm dia	Nos	6698	
	250 x 150 mm dia	Nos	7141	1
	250 x 200 mm dia	Nos	7141	
	300 x 100 mm dia	Nos	8881	
	300 x 150 mm dia	Nos	9318	8
	300 x 200 mm dia	Nos	8955	
	300 x 250 mm dia	Nos	9609	
	350 x 200 mm dia	Nos	13535	
	350 x 300 mm dia	Nos	14081	
	400 x 200 mm dia	Nos	16781	
	400 x 300 mm dia	Nos	17098	
	400 x 350 mm dia	Nos	16077	
	450 x 400 mm dia	Nos	19516	
	500 x 300 mm dia	Nos	26056	
	500 x 350 mm dia	Nos	24178	
	500 x 400 mm dia	Nos	23853	
	600 x 350 mm dia	Nos	33524	
	600 x 400 mm dia	Nos	33164	
	600 x 500 mm dia	Nos	30874	
VII	All Socket Tee			
	80 x 80 mm dia	Nos	3409	
	100 x 80 mm dia	Nos	4006	
	100 x 100 mm dia	Nos	4305	
	150 x 80 mm dia	Nos	5801	
	150 x 100 mm dia	Nos	6102	
	150 x 150 mm dia	Nos	7021	
- 4	200 x 80 mm dia	Nos	7550	
- 1	200 x 100 mm dia	Nos	8105	
	200 x 150 mm dia	Nos	9208	
-	200 x 200 mm dia	Nos	10766	
1	250 x 80 mm dia	Nos	9806	
-	250 x 100 mm dia	Nos	10315	1
	250 x 150 mm dia	Nos	11210	1
	250 x 200 mm dia	Nos	13030	1
	250 x 250 mm dia	Nos	14411	1
	300 x 80 mm dia	Nos	12410	1
	300 x 100 mm dia	Nos	12708	1
	300 x 150 mm dia	Nos	14827	1
	300 x 200 mm dia	Nos	16231	1
	300 x 250 mm dia	Nos	18024	1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
	300 x 300 mm dia	Nos	19636	
	350 x 80 mm dia	Nos	17842	
	350 x 100 mm dia	Nos	18186	
	350 x 150 mm dia	Nos	20260	
	350 x 200 mm dia	Nos	21869	
	350 x 250 mm dia	Nos	25439	
	350 x 300 mm dia	Nos	28201	
	350 x 350 mm dia	Nos	30043	
	400 x 80 mm dia	Nos	22791	/
	400 x 100 mm dia	Nos	22676	
	400 x 150 mm dia	Nos	26676	N
	400 x 200 mm dia	Nos	27508	\sim
	400 x 250 mm dia	Nos	29812	Y
	400 x 300 mm dia	Nos	32461	*
	400 x 400 mm dia	Nos	38100	
	400 x 400 mm dia	Nos	27539	
	450 x 150 mm dia	Nos	31188	
	450 x 200 mm dia	Nos	31852	
	450 x 250 mm dia	Nos	33381	
	450 x 250 mm dia	Nos	36718	
	450 x 350 mm dia		43798	
		Nos		
	450 x 400 mm dia 450 x 450 mm dia	Nos	44669	
		Nos	46274	
	500 x 100 mm dia	Nos	28830	
	500 x 150 mm dia 500 x 200 mm dia	Nos	33067	-
		Nos	33747	
	500 x 250 mm dia	Nos	40604	
	500 x 300 mm dia	Nos	41887	-
	500 x 400	Nos	46805	
VIII	Double Socket Tee with Flange branch-PN-10			
	80 x 80 mm dia	Nos	3581	
	100 x 80 mm dia	Nos	4209	
	100 x 100	Nos	4523	
	150 x 80 mm dia	Nos	6097	
	150 x 100 mm dia	Nos	6412	
1	150 x 150 mm dia	Nos	7377	
	200 x 80 mm dia	Nos	7934	
	200 x 100 mm dia	Nos	8517	
	200 x 150 mm dia	Nos	9677	
1	200 x 200 mm dia	Nos	11313	
	250 x 80 mm dia	Nos	10306	
	250 x 100	Nos	10839	
	250 x 150 mm dia	Nos	11782	1
	250 x 200 mm dia	Nos	13694	
	250 x 250 mm dia	Nos	15145	
	300 x 80 mm dia	Nos	13040	
	300 x 100 mm dia	Nos	13354	
		1	·	+
	300 x 150 mm dia	Nos	15580	

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Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in R 2024-2
1	2	3	4	5
	300 x 250 mm dia	Nos	18941	
	300 x 300 mm dia	Nos	20636	
	350 x 80 mm dia	Nos	18749	
	350 x 100 mm dia	Nos	19112	
	350 x 150 mm dia	Nos	21288	
	350 x 200 mm dia	Nos	22982	
	350 x 250 mm dia	Nos	26733	
	350 x 300 mm dia	Nos	29634	
	350 x 350 mm dia	Nos	31570	
	400 x 80 mm dia	Nos	23909	
	400 x 100 mm dia	Nos	23829	X
	400 x 150 mm dia	Nos	28034	
	400 x 200 mm dia	Nos	28906	
	400 x 250 mm dia	Nos	31328	P
	400 x 300 mm dia	Nos	34113	
	400 x 400 mm dia	Nos	40038	
	450 x 80	Nos	28940	
	450 x 100 mm dia	Nos	32776	
	450 x 150 mm dia	Nos	33473	
	450 x 200 mm dia	Nos	35079	
	450 x 250 mm dia	Nos	38587	
	450 x 300 mm dia	Nos	46026	
	450 x 350 mm dia	Nos	46941	
	450 x 400 mm dia	Nos	48628	
	450 x 450 mm dia	Nos	30296	
	500 x 80 mm dia	Nos	34750	
	500 x 100 mm dia	Nos	35465	
	500 x 150 mm dia	Nos	42669	
	500 x 200 mm dia	Nos	44018	
	500 x 250 mm dia	Nos	49186	
	500 x 300 mm dia	Nos	41892	
	500 x 400 mm dia	Nos	47226	
	500 x 500 mm dia	Nos	55425	
IX	Flange Socket-PN-10			
<u></u>	80 mm dia	Nos	1967	
	100 mm dia	Nos	2157	
	150 mm dia	Nos	3272	
- 1	200 mm dia	Nos	4560	
	250 mm dia	Nos	6285	
	300 mm dia	Nos	8222	
	350 mm dia	Nos	12205	
-	400 mm dia	Nos	14805	
	450 mm dia	Nos	16610	
	500 mm dia	Nos	19889	
	600 mm dia	Nos	27688	



SECTION - I (V) R.C.C. PIPES

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Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25	
1	2	3		4		5	Salary Jeevan Produkt
	V. R.C.C. PIPES						
	Providing ISI standard R.C.C. pipes in standard lengths of following class and diameter suitable for						
	either collar joints or rubber ring joints, excluding						
	GST lev-ied by GOI & GOM in all respect including						
	inspec- tion charges, transport to departmental						
	stores, unloading and stacking etc. complete as per IS-458/1988.						
	Note :One collar should be supplied with each						
	full length plain ended RCC pipe, cost including						
	in rates below. One rubber ring should be supplied with each full length of socketed pipe.				- D		
	cost included in rates below.						
					AV		
a)	Class 'P-I'		Coller Joints	Rubber Ring			
				Joints			
'	80 mm.	Rmt	347	306	1.		
ii)	100 mm.	Rmt	362	329			
iii)	150 mm.	Rmt	421	374			_
,	200 mm. 225 mm.	Rmt Rmt	488	437 501			
	250 mm.	Rmt	611	547			
	300 mm.	Rmt	780	697			
,	350 mm.	Rmt	840	755			
	400 mm.	Rmt	1066	964			
X)	450 mm.	Rmt	1312	1183			
,	500 mm.	Rmt	1580	1420			
,	600 mm.	Rmt	1990	1795			
,	700 mm.	Rmt	2593	2332			
,	800 mm. 900 mm.	Rmt Rmt	2992 3766	2692 3390			
,	1000 mm.	Rmt	4414	3390			
,	1100 mm.	Rmt	5012	4514			
	1200 mm.	Rmt	6022	5426			
	2		Coller Joints	Rubber Ring Joints			
b)	Class 'P-II'						
i)	80 mm.	Rmt	370	326			
	100 mm.	Rmt	393	353			
,	150 mm.	Rmt	518	467			_
,	200 mm. 225 mm.	Rmt Rmt	696 825	631 743			_
	250 mm.	Rmt	825	812	+		
	300 mm.	Rmt	1179	1125			
,	350 mm.	Rmt	1473	1332			
ix)	400 mm.	Rmt	1642	1496			
	450 mm.	Rmt	1992	1786			
,	500 mm.	Rmt	2781	2535			
,	600 mm.	Rmt	3449	3110			
	700 mm.	Rmt	4698	4274			
	800 mm. 900 mm.	Rmt Rmt	5650 6365	5148 6412			_
,	1000 mm.	Rmt	7701	6933			
<u>c)</u>	Class 'P-III'	, and	Coller Joints	Rubber Ring Joints			-
i)	80 mm.	Rmt	398	391			

Sr.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25	
No.							1 Com
1	2	3		4	Ę	5	Sthra Jeevan Prob
iii)	150 mm.	Rmt	490	490			
iv)	200 mm.	Rmt	699	699			
v)	225 mm.	Rmt	833	833			
vi)	250 mm.	Rmt	974	973			
vii)	300 mm.	Rmt	1357	1355			
	350 mm.	Rmt	1767	1767			
ix)	400 mm.	Rmt	2433	2433			
x)	450 mm.	Rmt	2828	2792			
xi)	500 mm.	Rmt	3407	3406			
,	600 mm.	Rmt	4375	4375			
,	700 mm.	Rmt	6242	6241	- Dec		
xiv)	800 mm.	Rmt	7927	7927		-	
<u>d)</u>	Class 'NP-II' (For 2.00 m. length)		Coller Joints	Rubber Ring Joints	$\cap V$		
i)	80 mm.	Rmt	298	301	· · · · ·		
ii)	100 mm.	Rmt	306	312			
iii)	150 mm.	Rmt	334	334			
iv)	200 mm.	Rmt	417	417			
v)	225 mm.	Rmt	467	476			
-	250 mm.	Rmt	502	513			
vii)	300 mm.	Rmt	650	650			
	<u>(For 2.50 m. length)</u>		Coller Joints	Rubber Ring Joints			
viii)	350 mm.	Rmt	903	922			
ix)	400 mm.	Rmt	1042	1042			
X)	450 mm.	Rmt	1232	1250			
xi)	500 mm.	Rmt	1320	1320			
,	600 mm.	Rmt	1666	1666			
,	700 mm.	Rmt	2221	2221			
,	800 mm.	Rmt	2499	2499			
,	900 mm.	Rmt	3194	3194			
,	1000 mm.	Rmt	3887	3887			
	1100 mm.	Rmt	5301	5301			
	1200 mm.	Rmt	6328	6328			
xix)	1400 mm.	Rmt	7665	7817			
XX)	1600 mm.	Rmt	8801	8976			
xxi) <u>e)</u>	1800 mm. Class NP-III (For 2.00 m. length)	Rmt	12327 Coller Joints	12574 Rubber Ring			
	N N			Joints			
	80 mm	Rmt	338	343			
ii)	100 mm	Rmt	371	390			
iii)	150 mm	Rmt	422	430			
iv)	200 mm	Rmt	580	474			
V)	225 mm	Rmt	650	553			
vi)	250 mm	Rmt	689	650			
vii)	300 mm.	Rmt	894	910			
	350 mm.	Rmt	1580	1515			
,	400 mm.	Rmt	1770	1615			
	450 mm.	Rmt	2105	1742			
	500 mm.	Rmt	2337	2146			
,	600 mm.	Rmt	3079	2525			
,	700 mm.	Rmt	4103	3534			
xiv)	800 mm.	Rmt	4987	3787			
	900 mm.	Rmt	5760	4419			
xvi)	1000 mm.	Rmt	6564	4924			
,							1
xvii)	1100 mm. 1200 mm.	Rmt Rmt	8152 9480	8316 9480			

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Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25	
1	2	3		4	Ę	5	- 13
	1400 mm	Rmt	11146	11146			
xx)	1600 mm	Rmt	16747	16910			_
xxi)	1800 mm	Rmt	20697	20697			_
,	Class 'NP-IV'		Coller Joints	Rubber Ring			
				Joints			
,	80 mm.	Rmt	363	370			
	100 mm.	Rmt	426	434			
iii)	150 mm.	Rmt	482	492			
iv)	200 mm.	Rmt	673	537			
V)	225 mm.	Rmt	742	631			
vi)	250 mm.	Rmt	815	742			
vii)	300 mm.	Rmt	1142	1136			
viii)	350 mm.	Rmt	1735	1615	- 13	6	
	400 mm.	Rmt	1858	1767	nv		\neg
,	450 mm.	Rmt	2190	1893			
,	500 mm.	Rmt	2678	2336			
	600 mm.	Rmt	3274	3029	1 V		-
				3029			\neg
- '	700 mm.	Rmt	4901				
	800 mm.	Rmt	5597	4103			
	900 mm.	Rmt	6554	4798			
	1000 mm.	Rmt	9279	5303			
	1100 mm.	Rmt	10066	10176			
wiii)	1200 mm.	Rmt	10112	10313			
dx)	1400 mm.	Rmt	15788	14691			
XX)	1600 mm.	Rmt	19685	19738			
xxi)	1800 mm.	Rmt	26984	25475			
	Note :Only 85% rate is payable till satisfactory	1	V				_
<u>2.</u>	hydraulic testing is given. Lowering, laying and jointing in proper grade and						_
	alignment <u>R.C.C. pipes</u> with collar joints in C.M.1:1 proportion or socketed R.C.C. pipes with rubber						
	joints (excluding cost of rubber ring or R.C.C. collar,) including cost of conveyance from stores to	-					
	site of work, cost of jointing material, labour, etc.						
	complete as directed by Engineerin- charge (For all class of pipes.) as per IS- 783-1985.			Rubber Ring			
			Coller Joints	Joints			
i)	80 mm.	Rmt	59	44			-
	100 mm. 150 mm.	Rmt Rmt	71 109	50 76			-
	200 mm.	Rmt	109	102			-
	200 mm.	Rmt	168	119			-
	250 mm.	Rmt	188	132			
vii)	300 mm.	Rmt	228	160			
/iii)	350 mm.	Rmt	233	164			
	400 mm.	Rmt	297	211			
	450 mm.	Rmt Rmt	362	251			-
	500 mm. 600 mm.	Rmt Rmt	393 497	273 344			-
	700 mm.	Rmt	563	391			\neg
	800 mm.	Rmt	652	451			
	900 mm.	Rmt	717	500			
	1000 mm.	Rmt	785	545			
	1100 mm.	Rmt	1092	739			$ \rightarrow $
	1200 mm. 1400 mm.	Rmt Rmt	1157	786			-
	1400 mm. 1600 mm.	Rmt Rmt	1289 1421	883 977			\neg
		i AITU	1 1741	1 311			

Sr. No.	Description		Rate (R	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25	
1	2	3		4		ţ	5	an and a star
<u>3.</u>	Hydraulic testing of RCC pipe line to specified pressure including cost of all materials and labour and water for testing for specified length including cutting, placing end cap making arrangement for filling safe water using reciprocating type pumps which should be able to provide speci-fied test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary and reinstating to original position.		Coller Joints	Rubber Ring Joints				
i)	80 mm.	Km	6946	4168				
ii)	100 mm.	Km	8335	5556				
iii)	150 mm.	Km	12503	8335				
	200 mm.	Km	15280	11113				
v)	225 mm.	Km	18059	12503	1	VV		1
•7	250 mm.	Km	20836	15280		1		1
	300 mm.	Km	25004	18059		1		1
	350 mm.	Km	26393	18059	1.0	11		1
	400 mm.	Km	33338	23615	1	W		1
	450 mm.	Km	40284	27782				1
	500 mm.	Km	43062	30560				1
xii)	600 mm.	Km	55563	38894				1
	700 mm.	Km	62509	43062				
xiv)	800 mm.	Km	72232	50007				
xv)	900 mm.	Km	79178	55563]
xvi)	1000 mm.	Km	87512	61120				
xvii)	1100 mm.	Km	120850	81956]
	1200 mm.	Km	129185	87512				
xix)	1400 mm.	Km	143076	98625				
XX)	1600 mm.	Km	158356	108349				
	1800 mm.	Km	172246	119461				

5



SECTION - I (VI) P.S.C. PIPES

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs	.) 2024-25
1	2	3		4		5
	VI. P. S. C. PIPES					
<u>1.</u>	<u> Providing</u> ISI <u>standard</u> <u>Pre</u> <u>stressed</u>					
	Cement concrete pipes of following class and					
	diameter including cost of all meterial and					
	labour required, cost, inspection charges,					
	transportaion to stores, unloading and stacking excluding GST levied by GI & GOM in all					
	respect etc. complete as per IS-784-2001.					
	i) Factory test pressure					
	a) Site test pressure + 01N/mm2, For working				- D	
	pressure upto 1 N/mm2				- P.	
	b) Site test pressure + 02N/mm2, For working pressure upto 1 N/mm2			1	γV	5
	ii) <u>Site</u> test pressure - 1.5 times working					
	pressure pertaining to the section or 1.1 times					
	static pressure, which ever is more (such			01	r 🕐 👘	
	pressure is to be control within 25% of pumphead incase of pumping main)			()		
	iii) <u>Working</u> <u>pessure</u> - The maximum					
	sustained internal pressure excluding surge to			\sim		
	which each portion of pipeline my be subjected		~	1		
	when installed.		$(\)$			
	Note : One rubber ring should be supplied wi	ith each	n pipe, cost i	ncluded in rat	es below.	
<u>a)</u>	Factory Test Pressure 2 kg/Sqcm	\$ - I				
i)	350 mm.	Rmt	3417			
ii)	400 mm.	Rmt	3677			
iii)	450 mm.	Rmt	3857			
iv)	500 mm.	Rmt	4245			
v)	600 mm.	Rmt	5104			
vi)	700 mm.	Rmt	5682			
vii)	800 mm.	Rmt	7019			
viii)	900 mm.	Rmt	8728			
ix)	1000 mm.	Rmt	10176			
x)	1100 mm.	Rmt	11620			
xi)	1200 mm.	Rmt	13426			
xii)	1300 mm.	Rmt	15525			
xiii)	1400 mm.	Rmt	1783			
xiv) xv)	1500 mm. 1600 mm.	Rmt Rmt	19551			
xvi)	1700 mm.	Rmt	21685			
xvii)	1800 mm.	Rmt	23820			
		TXIII.	25955			
<u>b)</u>	Factory Test Pressure 4 kg/Sqcm					
i)	350 mm.	Rmt	3417			
ii)	400 mm.	Rmt	3678			
iii)	450 mm.	Rmt	3857			
iv)	500 mm.	Rmt	4245	ļ		
v)	600 mm.	Rmt	5105			
vi)	700 mm.	Rmt	5685			
vii)	800 mm.	Rmt	7019			
viii)	900 mm.	Rmt	8729			
ix)	1000 mm.	Rmt	10179			
X)	1100 mm.	Rmt	11622	1		1

Sr.	Description		Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25		
<u>No.</u> 1	2	3	4		5		
xi)	1200 mm.	Rmt	13427	r	Ĩ		
xii)	1300 mm.	Rmt	15530				
, xiii)	1400 mm.	Rmt	17084				
xiv)	1500 mm.	Rmt	19555				
xv)	1600 mm.	Rmt	21688				
xvi)	1700 mm.	Rmt	23824				
xvii)	1800 mm.	Rmt	25958				
<u>c)</u>	Factory Test Pressure 6 kg/Sqcm						
i)	350 mm.	Rmt	3424				
ii)	400 mm.	Rmt	3698		- C		
iii)	450 mm.	Rmt	3868			_	
iv)	500 mm.	Rmt	4277				
V)	600 mm.	Rmt	5173	6			
vi)	700 mm.	Rmt	5882		1		
vii)	800 mm.	Rmt	7278				
viii)	900 mm.	Rmt	9074	0_1			
ix)	1000 mm.	Rmt	10584				
X)	1100 mm.	Rmt	12050				
xi)	1200 mm.	Rmt	13958				
xii)	1300 mm.	Rmt	16125				
xiii)	1400 mm.	Rmt	17742	V			
xiv)	1500 mm.	Rmt	20322				
xv)	1600 mm.	Rmt	22572				
xvi)	1700 mm.	Rmt	24820				
xvii)	1800 mm.	Rmt	27067				
<u>d)</u>	Factory Test Pressure 8 kg/Sqcm						
i)	350 mm.	Rmt	3427				
ii)	400 mm.	Rmt	3725				
iii)	450 mm.	Rmt	3892				
iv)	500 mm.	Rmt	4337				
V)	600 mm.	Rmt	5348				
vi)	700 mm.	Rmt	6179				
vii)	800 mm.	Rmt	7587				
viii)	900 mm.	Rmt	9459				
ix)	1000 mm.	Rmt	11059				
X)	1100 mm.	Rmt	12655				
xi)	1200 mm.	Rmt	14653				
xii)	1300 mm.	Rmt	16948				
xiii)	1400 mm.	Rmt	18731				
xiv)	1500 mm.	Rmt	21465				
xv)	1600 mm.	Rmt	24218				
xvi)	1700 mm.	Rmt	26973				
xvii)	1800 mm.	Rmt	29731				

Sr. No.	Description		Rate (Rs	s.) 2023-24	Rate (Rs	s.) 2024-25		
<u>1</u>	2 3		4		4		5	
<u>e)</u>	Factory Test Pressure 10 kg/Sqcm							
i)	350 mm.	Rmt	3446					
ii)	400 mm.	Rmt	3774					
iii)	450 mm.	Rmt	4027					
iv)	500 mm.	Rmt	4510					
v)	600 mm.	Rmt	5578					
vi)	700 mm.	Rmt	6427					
vii)	800 mm.	Rmt	7973					
viii)	900 mm.	Rmt	9936					
ix)	1000 mm.	Rmt	11637					
X)	1100 mm.	Rmt	13355					
xi)	1200 mm.	Rmt	15470		- 13			
xii)	1300 mm.	Rmt	17912	1				
xiii)	1400 mm.	Rmt	20247					
(vi	1500 mm.	Rmt	23212					
xv)	1600 mm.	Rmt	25864	01	2 V			
wi)	1700 mm.	Rmt	28519					
vii)	1800 mm.	Rmt	21172					
			31173					
<u>f)</u>	Factory Test Pressure 12 kg/Sqcm			1				
i)	350 mm.	Rmt	3474					
ii)	400 mm.	Rmt	3815	·*·				
iii)	450 mm.	Rmt	4091					
iv)	500 mm.	Rmt	4593					
v)	600 mm.	Rmt	5709					
vi)	700 mm.	Rmt	6613					
vii)	800 mm.	Rmt	8224					
/iii)	900 mm.	Rmt	10225					
x)	1000 mm.	Rmt	11981					
x)	1100 mm.	Rmt	13734					
xi)	1200 mm.	Rmt	16187					
(ii)	1300 mm.	Rmt	18640					
kiii)	1400 mm.	Rmt	20742					
iv)	1500 mm.	Rmt	23750					
(V)	1600 mm.	Rmt	26466					
vi)	1700 mm.	Rmt	29179					
(vii)	1800 mm.	Rmt	31893					
<u>a)</u>	Factory Test Pressure 14 kg./Sqcm.							
i)	350 mm.	Rmt	3560					
ii)	400 mm.	Rmt	3917					
iii)	450 mm.	Rmt	4216					
iv)	500 mm.	Rmt	4741					
v) v)	600 mm.	Rmt	5930					
v) /i)	700 mm.	Rmt	6899					
vi) vii)	800 mm.	Rmt	8595					
viii)	900 mm.	Rmt	10713			+		
,	1000 mm.	Rmt						
ix)			12779					
x)	1100 mm.	Rmt	14685					
xi)	1200 mm.	Rmt	17024					
xii)	1300 mm.	Rmt	19653	ļ				
xiii)	1400 mm.	Rmt	22396					

Sr. No.	Description		Rate (Re	s.) 2023-24	Rate (Rs	.) 2024-25
1	2			4		5
xiv)	1500 mm.	Rmt	25663			
xv)	1600 mm.	Rmt	28699			
,	1700 mm.	Rmt	31736			
xvii)	1800 mm.	Rmt	34771			
<u>h)</u>	Factory Test Pressure 16 kg./Sqcm.					
i)	350 mm.	Rmt	3682			
ii)	400 mm.	Rmt	4068			
	450 mm.	Rmt	4398			
,	500 mm.	Rmt	4957			
	600 mm.	Rmt	6218		- D	
<i>,</i>	700 mm.	Rmt	7274			1
,	800 mm.	Rmt	9072		$\gamma \nu$	
,	900 mm.	Rmt	12041			
ix)	1000 mm.	Rmt	13551		1	
x)	1100 mm.	Rmt	16264		· · · ·	
xi)	1200 mm.	Rmt	18773	O_		
xii)	1300 mm.	Rmt	21608			
xiii)	1400 mm.	Rmt	23850			
xiv)	1500 mm.	Rmt	28329			
xv)	1600 mm.	Rmt	31776			
xvi)	1700 mm.	Rmt	35222			
xvii)	1800 mm.	Rmt	38665			
<u>i)</u>	Factory Test Pressure 18 kg/Sqcm					
i)	350 mm.	Rmt	3765			
ii)	400 mm.	Rmt	4181			
iii)	450 mm.	Rmt	4524			
iv)	500 mm.	Rmt	5110			
V)	600 mm.	Rmt	6441			
vi)	700 mm.	Rmt	7954			
vii)	800 mm.	Rmt	9926			
viii)	900 mm.	Rmt	12554			
ix)	1000 mm.	Rmt	14752			
X)	1100 mm.	Rmt	17025			
xi)	1200 mm.	Rmt	19678			
xii)	1300 mm.	Rmt	22665			
xiii)	1400 mm.	Rmt	29907			
	1500 mm.	Rmt	33722			
xv)	1600 mm.	Rmt	38011			
xvi)	1700 mm.	Rmt	42296			
xvii)	1800 mm.	Rmt	46581			
<u>J)</u>	Factory Test pressure 20 kg/Sqcm.					
i)	350 mm.	Rmt	3852			
ii)	400 mm.	Rmt	4281			
iii)	450 mm.	Rmt	4655			
iv)	500 mm.	Rmt	5268			
v)	600 mm.	Rmt	6667			
vi)	700 mm.	Rmt	8811			

Sr.	Description	Unit	Rate (Re	s.) 2023-24	Rate (Rs	.) 2024-25
<u>No.</u> 1	2	3	4			5
viii)	900 mm.	Rmt	13857			-
ix)	1000 mm.	Rmt	16670			
x)	1100 mm.	Rmt	19817			
xi)	1200 mm.	Rmt	24922			
xii)	1300 mm.	Rmt	27421			
xiii)	1400 mm.	Rmt	32034			
xiv)	1500 mm.	Rmt	36315			
xv)	1600 mm.	Rmt	40615			
xvi)	1700 mm.	Rmt	44913			<i>.</i>
(vii)	1800 mm.	Rmt	49214	(nv	-
	Note :1) Only 85% rates of providing item shall be payable till satisfactory hydrulic testing is given.			0	.V	
<u>2.</u>	Lowering, laying and jointing in proper grade and alignment Pre-Stressed Cement Concrete Pipes with rubber ring joints including cost of conveyance from stores to site of works, all labour involved, etc. complete but excluding cost of rubber rings (for all class of pipes)	0	0	2		
i)	350 mm.	Rmt	143			
ii)	400 mm.	Rmt	200			
iii)	450 mm.	Rmt	243			
iv)	500 mm.	Rmt	273			
V)	600 mm.	Rmt	367			
vi)	700 mm.	Rmt	402			
vii)	800 mm.	Rmt	452			
viii)	900 mm.	Rmt	466			
ix)	1000 mm.	Rmt	601			
x)	1100 mm	Rmt	790			
xi)	1200 mm	Rmt	846			
xii)	1300 mm	Rmt	1005			
xiii)	1400 mm	Rmt	1060			
xiv)	1500 mm	Rmt	1337			
xv)	1600 mm	Rmt	1504			
xvi)	1700 mm.	Rmt	1676			
(vii)	1800 mm.	Rmt	1628			



Sr. No.	Description	Unit	Rate (R	s.) 2023-24	Rate (Rs	s.) 2024-25
1	2	3		4		5
<u>3.</u>	Hydraulic testing of Pre-Stressed Cement Concrete Pipes with rubber ring joints to specified pressure including cost of all materials and labour and water for testing for the length upto 1 km., using reciprocating type pumps which should be able to provide specified test pressure guages and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary.					
i)	350 mm.	Km	15280			
ii)	400 mm.	Km	22225		$\sim V$	K
iii)	450 mm.	Km	26393	6		
iv)	500 mm.	Km	30560			
V)	600 mm.	Km	40284	0-1		
vi)	700 mm.	Km	44451	C		
vii)	800 mm.	Km	50007			
viii)	900 mm.	Km	51397			
ix)	1000 mm.	Km	66676	V		
x)	1100 mm	Km	87512			
xi)	1200 mm	Km	94457			
xii)	1300 mm	Km	111126			
xiii)	1400 mm	Km	118073			
xiv)	1500 mm	Km	148632			
xv)	1600 mm	Km	166690			
xvi)	1700 mm.	Km	186137			
xvii)	1800 mm.	Km	197250			

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SECTION - I (VII) BAR WRAPPED STEEL CYLINDER PIPES (BWSC)

2 3 5 VII. BAR WRAPPED STEEL CYLINDER PIPES (BWSC) 3 5 Providing and supplying European Standard EN 5 Solutable for overlaping stell optimore pressure pipes cylinder type or 15-155-2002 (Bar wrapped steel cylinder type or 15-155-2002 (Bar wrapped steel cylinder pipes suitable for overlaping stell welded joint or but welded steel joints) of following class and diameter including cost of all material and labour required, inspection charges, transportation to stores, transit insurance, loading, unloding and stacking excluding CST levied by GOI & GOM in all respectet. complete. 1) Factory test pressure a) Site test pressure + 01N/mm2. For working pressure upto 1 N/mm2 b) Site test pressure + 02N/mm2. For working pressure pertaining to the section or 1.1 times static pressure, which ever is more (such pressure is to be control within 25% of pumphead incase of pumping main) 11) Working pressure - The maximum sustained internal pressure excluding surge to which each portion of pipeline may be subjected when installed. Note : 1) Class mentioned below represents the working pressure of pipe. 2) For external coating at site to the joints, necessary polythene wrap ping for pouring cement slury shall also be given free with each pipe. Factory Test Pressure 4 kg / Sqcm 300 mm 300 mm. Rmt 400 mm. 700 mm.	r.	Description	Unit	Rate (in Rs.)	Rate (in Rs.)
2 3 5 VII. BAR WRAPPED STEEL CYLINDER PIPES (BWSC) Providing and supplying European Standard EN (53/1994 and EN 641/1994 or AWWA C-303 standard and reinforced concrete pressure pipes cylinder type or IS-16155-2002 (Bar wrapped steel cylinder pipes suitable for overlaping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, inspection charges, transportation to stores, transit insurance, loading, unloding and stacking excluding (SET levied by GOI & GOM in all respect, etc. complete. 1) Factory test pressure a) Site test pressure + 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 1) Site test pressure = 01N/mm2, For working pressure upto 1 N/mm2 300 mm Rmt 4041 300 mm	r. o.	Description	Unit		2024-25
Providing and supplying European Standard EN639/1994 and EN 641/1994 or AWWA C-303 standard and reinforced concrete pressure pipes cylinder type or 15-1515-2002 (Bar wrapped steel cylinder pipes suitable for overlaping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, inspection charges, transportation to stores, transit insurance, loading, unloding and stacking excluding GST levied by GOI & GOM in all respect, etc. complete.(j)Factory test pressure a) Sile test pressure + 01N/mm2, For working pressure opto 1 N/mm2 b) Site test pressure + 02N/mm2, For working pressure upto 1 N/mm2(j)Stet test pressure _ 1.5 times working pressure pertaining to the section or 1.1 times static pressure which ever is more (such pressure is to be control within 25% of pumphead incase of pumping main) (ji) Working pressure of pipe. 2) For external coating at site to the loints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.300 mmRmt4041350 mm.Rmt4041450 mm.Rmt4986450 mm.Rmt4986450 mm.Rmt4986450 mm.Rmt14002900 mm.Rmt14002900 mm.Rmt14002100 mm.Rmt161361100 mm.Rmt161361100 mm.Rmt161361111400 mm.Rmt1221300 mm.Rmt1300 mm.Rmt161361411400 mm.Rmt150 mm.Rmt16136 <tr< td=""><td>0. 1</td><td>2</td><td>3</td><td></td><td>2024 20</td></tr<>	0. 1	2	3		2024 20
Providing and supplying European Standard EN639/1994 and EN 641/1994 or AWWA C-303 standard and reinforced concrete pressure pipes cylinder type or 15-1515-2002 (Bar wrapped steel cylinder pipes suitable for overlaping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, inspection charges, transportation to stores, transit insurance, loading, unloding and stacking excluding GST levied by GOI & GOM in all respect, etc. complete.(j)Factory test pressure a) Sile test pressure + 01N/mm2, For working pressure opto 1 N/mm2 b) Site test pressure + 02N/mm2, For working pressure upto 1 N/mm2(j)Stet test pressure _ 1.5 times working pressure pertaining to the section or 1.1 times static pressure which ever is more (such pressure is to be control within 25% of pumphead incase of pumping main) (ji) Working pressure of pipe. 2) For external coating at site to the loints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.300 mmRmt4041350 mm.Rmt4041450 mm.Rmt4986450 mm.Rmt4986450 mm.Rmt4986450 mm.Rmt14002900 mm.Rmt14002900 mm.Rmt14002100 mm.Rmt161361100 mm.Rmt161361100 mm.Rmt161361111400 mm.Rmt1221300 mm.Rmt1300 mm.Rmt161361411400 mm.Rmt150 mm.Rmt16136 <tr< td=""><td>-</td><td>VII. BAR WRAPPED STEEL CYLINDER PIPES (BWSC)</td><td>-</td><td>-</td><td></td></tr<>	-	VII. BAR WRAPPED STEEL CYLINDER PIPES (BWSC)	-	-	
639/1994 and EN 641/1994 or AWWA C-303 standard and reinforced concrete pressure pipes cylinder type suitable for overlaping steel welded joint or butt welded steel joints) of following class and diameter including cost of all matersial and labour required, inspection charges, transportation to stores, transit insurance, loading, unloding and stacking excluding GST levied by GOI & GOM in all respect,etc. complete. (j) Factory test pressure a) Site test pressure + 01N/mm2, For working pressure upto 1 N/mm2 b) Site test pressure + 02N/mm2, For working pressure upto 1 N/mm2 (ii) Site test pressure _ 1.5 times working pressure pertaining to the section or 1.1 times static pressure, which ever is more (such pressure is to be control within 25% of pumphead incase of pumping main) iii) Working pressure of the pack of the each portion of pipeline may be subjected when installed. Note : 1) Class mentioned below represents the working pressure of pipe, 2) For external coating at site to the ioints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe. Factory Test Pressure 4 kg / Sqcm 1 300 mm Rmt 4041 350 mm. Rmt 4986 455 mm. Rmt 4986 6430 mm. Rmt 6140 600 mm. Rmt 10020 900 mm. Rmt 10020 900 mm. Rmt 16136 1100 mm. Rmt 16136 1100 mm. Rmt <					
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GOM in all respect,etc. complete. i) Factory test pressure a) Site test pressure + 01N/mm2, For working pressure upto 1 N/mm2 b) Site test pressure + 02N/mm2, For working pressure upto 1 N/mm2 ii) Site test pressure - 1.5 times working pressure upto 1 N/mm2 iii) Site test pressure - 1.5 times working pressure upto 1 Winner iiii) Working pressure upto 1 Winch ever is more (such pressure is to be control within 25% of pumphead incase of pumping main) iii) Working pressure - The maximum sustained internal pressure excluding surge to which each portion of pipeline may be subjected when installed. Note : 1) Class mentioned below represents the working pressure of pipe. 2) For external coating at site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe. Factory Test Pressure 4 kg / Sqcm iiii to the yable data data data data data data data dat					
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iii) Working pressure - The maximum sustained internal pressure excluding surge to which each portion of pipeline may be subjected when installed.Note : 1) Class mentioned below represents the working pressure of pipe. 2) For external coating at site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Factory Test Pressure 4 kg / Sqcm300 mmRmt300 mmRmt400 mm.Rmt450 mm.Rmt450 mm.Rmt450 mm.Rmt450 mm.Rmt500 mm.Rmt600 mm.Rmt700 mm.Rmt900 mm.Rmt1000 mm.Rmt1100 mm.Rmt1200 mm.Rmt1400 mm.1400 mm. </td <td></td> <td></td> <td></td> <td></td> <td></td>					
pressure excluding surge to which each portion of pipeline may be subjected when installed.Image: Constraint of the pipeline of pipe. 2) For external coating at site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Constraint of pipeline each pipe.Factory Test Pressure 4 kg / SqcmImage: Constraint of pipeline stomm.Image: Constraint of pipeline methyle pipeline300 mmRmt4041350 mm.Rmt4545400 mm.Rmt4545400 mm.Rmt4986450 mm.Rmt5519500 mm.Rmt6140600 mm.Rmt7984700 mm.Rmt10020900 mm.Rmt10020900 mm.Rmt140021000 mm.Rmt161361100 mm.Rmt242941200 mm.Rmt316411400 mm.Rmt33937					
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Note : 1) Class mentioned below represents the working pressure of pipe. 2) For external coating at site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state site to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state state to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state state to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state state to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state state to the joints, necessary polythene wrap ping for pouring cement slurry shall also be given free with each pipe.Image: Comparison of the second state state stateImage: Comparison of the second state state300 mm.Rmt40411001000300 mm.Rmt140021000900 mm.Rmt242941200100 mm.Rmt2709413001300 mm.Rmt316411400 mm.Rmt33937					
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Factory Test Pressure 4 kg / Sqcm Rmt 4041 300 mm Rmt 4041 350 mm. Rmt 4545 400 mm. Rmt 4986 450 mm. Rmt 5519 500 mm. Rmt 6140 600 mm. Rmt 7984 700 mm. Rmt 9226 800 mm. Rmt 10020 900 mm. Rmt 14002 1000 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 31641 1400 mm. Rmt 33937					
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500 mm. Rmt 6140 600 mm. Rmt 7984 700 mm. Rmt 9226 800 mm. Rmt 10020 900 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	i)		Rmt	4986	
600 mm. Rmt 7984 700 mm. Rmt 9226 800 mm. Rmt 10020 900 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	V)	450 mm.	Rmt		
700 mm. Rmt 9226 800 mm. Rmt 10020 900 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	/)	500 mm.	Rmt	6140	
800 mm. Rmt 10020 900 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	ri)	600 mm.	Rmt	7984	
900 mm. Rmt 14002 1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	ii)	700 mm.	Rmt	9226	
1000 mm. Rmt 16136 1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	iii)	800 mm.	Rmt	10020	
1100 mm. Rmt 24294 1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	K)	900 mm.	Rmt	14002	
1200 mm. Rmt 27094 1300 mm. Rmt 31641 1400 mm. Rmt 33937	()	1000 mm.	Rmt	16136	
1300 mm. Rmt 31641 1400 mm. Rmt 33937	i)	1100 mm.	Rmt	24294	
1400 mm. Rmt 33937	ii)	1200 mm.	Rmt	27094	
1400 mm. Rmt 33937	iii)	1300 mm.	Rmt		
	v)				
	v)	1500 mm.	Rmt	36218	
1600 mm. Rmt 39017	vi)				
1700 mm. Rmt 41395	••/				
1800 mm. Rmt 44197	/ii)				

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	5	
<u>b)</u>	Factory Test Pressure 6 kg / Sqcm			
i)	300 mm	Rmt	4046	
 ii)	350 mm.	Rmt	4549	
iii)	400 mm.	Rmt	4991	
iv)	450 mm.	Rmt	5523	
v)	500 mm.	Rmt	6151	
vi)	600 mm.	Rmt	7995	
vii) viii)	700 mm. 800 mm.	Rmt Rmt	9234 10027	
ix)	900 mm.	Rmt	14009	
x)	1000 mm.	Rmt	16143	
xi)	1100 mm.	Rmt	24306	
xii)	1200 mm.	Rmt	27105	
xiii)	1300 mm.	Rmt	31647	
xiv)	1400 mm.	Rmt	33948	
xv)	1500 mm.	Rmt	36228	*
xvi)	1600 mm.	Rmt Pmt	39029 41402	
<u>xvii)</u> xviii)	1700 mm. 1800 mm.	Rmt Rmt	41402	
<u>AV(II)</u>		TMIL	77204	1
	Forstern Toot Descours 0 km / Orean		-	
<u>c)</u>	Factory Test Pressure 8 kg / Sqcm			
i)	300 mm	Rmt	4049	
ii)	350 mm.	Rmt	4557	
iii)	400 mm.	Rmt	4995	
iv)	450 mm.	Rmt	5527	
<u>v)</u>	500 mm.	Rmt	6165	
<u>vi)</u> vii)	600 mm. 700 mm.	Rmt Rmt	8007 9246	
viii)	800 mm.	Rmt	10041	
ix)	900 mm.	Rmt	14023	
x)	1000 mm.	Rmt	16158	
xi)	1100 mm.	Rmt	24319	
xii)	1200 mm.	Rmt	27117	
xiii)	1300 mm.	Rmt	31660	
<u>xiv)</u>	1400 mm.	Rmt	33957	
xv)	1500 mm. 1600 mm.	Rmt	36241	
<u>xvi)</u> xvii)	1700 mm.	Rmt Rmt	<u>39042</u> 41415	
	1800 mm.	Rmt	44220	
				1
ط/	Eastery Test Bressure 40 kg / Saom			
<u>d)</u>	Factory Test Pressure 10 kg / Sqcm			
i)	300 mm.	Rmt	4050	
ii)	350 mm.	Rmt	4558	
iii)	400 mm.	Rmt	5000	
iv)	450 mm.	Rmt	5529	
v)	500 mm.	Rmt	6182	1
vi)	600 mm.	Rmt	8026	
	700 mm.		9267	
vii)		Rmt		
viii)	800 mm.	Rmt	10061	
ix)	900 mm.	Rmt	14042	
x)	1000 mm.	Rmt	16175	
xi)	1100 mm.	Rmt	24338	
xii)	1200 mm.	Rmt	27138	
xiii)	1300 mm.	Rmt	31682	1
	1400 mm.	Rmt	33977	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	5	
xv)	1500 mm.	Rmt	36261	
xvi)	1600 mm.	Rmt	39061	
xvii)	1700 mm.	Rmt	41437	
,				
xviii)	1800 mm.	Rmt	44241	
<u>e)</u>	Factory Test Pressure 12 kg / Sgcm			
i)	300 mm	Rmt	4076	
ii)	350 mm.	Rmt	4588	
iii)	400 mm.	Rmt	5031	
iv)	450 mm.	Rmt	5566	
V)	500 mm.	Rmt	6244	
<u>vi)</u>	600 mm.	Rmt	8094	
vii)	700 mm.	Rmt	9341	
viii)	800 mm.	Rmt Dmt	11551	1
ix)	900 mm.	Rmt Bmt	14119	-
<u>x)</u> xi)	1000 mm. 1100 mm.	Rmt Rmt	17553 24498	
xi) xii)	1200 mm.	Rmt	27291	_
xiii)	1300 mm.	Rmt	31881	
xiv)	1400 mm.	Rmt	34193	
XV)	1500 mm.	Rmt	36875	
xvi)	1600 mm.	Rmt	40791	
xvii)	1700 mm.	Rmt	44150	
xviii)	1800 mm.	Rmt	49100	
£)	Factory Test Pressure 44 kg / Snor	_		
<u>f)</u>	Factory Test Pressure 14 kg / Sqcm			
i)	300 mm	Rmt	4084	
ii)	350 mm.	Rmt	4595	
iii)	400 mm.	Rmt	5035	
iv)	450 mm.	Rmt	5583	
v)	500 mm.	Rmt	6354	
vi)	600 mm.	Rmt	8241	
vii)	700 mm.	Rmt	10725	
viii)	800 mm.	Rmt	12573	
ix)	900 mm.	Rmt	15509	
X)	1000 mm.	Rmt	18671	
xi)	1100 mm.	Rmt	24599	
xii)	1200 mm.	Rmt	27303	
xiii)	1300 mm.	Rmt	32669	
xiv)	1400 mm.	Rmt	36918	
xv)	1500 mm.	Rmt	41075	
xvi)	1600 mm.	Rmt	45803	
xvii)	1700 mm.	Rmt	50291	
xviii)	1800 mm.	Rmt	55019	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	5	
<u>q)</u>	Factory Test Pressure 16 kg / Sqcm			
i)	300 mm	Rmt	4086	
 ii)	350 mm.	Rmt	4599	
iii)	400 mm.	Rmt	5041	
iv)	450 mm.	Rmt	5779	
V)	500 mm.	Rmt	6815	
vi)	600 mm.	Rmt	8846	
vii)	700 mm.	Rmt	11415	
viii)	800 mm.	Rmt	13679	
ix)	900 mm. 1000 mm.	Rmt Bmt	16916 20561	
<u>x)</u> xi)	1100 mm.	Rmt Rmt	25946	
xi) xii)	1200 mm.	Rmt	30255	
xiii)	1300 mm.	Rmt	36043	1
xiv)	1400 mm.	Rmt	40686	P
xv)	1500 mm.	Rmt	45374	
xvi)	1600 mm.	Rmt	50460	
xvii)	1700 mm.	Rmt	56008	
xviii)	1800 mm.	Rmt	62495	
<u>h)</u>	Factory Test Pressure 18 kg / Sqcm		P	
i)	300 mm.	Rmt	4288	
ii)	350 mm.	Rmt	4800	
iii)	400 mm.	Rmt	5359	
iv)	450 mm.	Rmt	6245	
<u>v)</u>	500 mm.	Rmt	7351	
vi)	600 mm.	Rmt	9619	-
vii)	700 mm.	Rmt	12646	
viii)	800 mm. 900 mm.	Rmt Rmt	14925 18446	
ix) x)	1000 mm.	Rmt	22503	
	1100 mm.	Rmt	28365	
xii)	1200 mm.	Rmt	33051	
xiii)	1300 mm.	Rmt	39245	
xiv)	1400 mm.	Rmt	44848	
xv)	1500 mm.	Rmt	49533	
xvi)	1600 mm.	Rmt	56190	
xvii)	1700 mm.	Rmt	62318	
xviii)	1800 mm.	Rmt	68974	
<u>i)</u>	Factory Test Pressure 20 kg / Sqcm			
i)	300 mm.	Rmt	4375	
ii)	350 mm.	Rmt	4806	
iii)	400 mm.	Rmt	5660	
iv)	450 mm.	Rmt	6464	
v)	500 mm.	Rmt	7839	
vi)	600 mm.	Rmt	10254	
vii)	700 mm.	Rmt	13331	
viii)	800 mm.	Rmt	16273	
ix)	900 mm.	Rmt	20095	1
x)	1000 mm.	Rmt	24585	1
• • •				
xi)	1100 mm.	Rmt	30911	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	5	
xiii)	1300 mm.	Rmt	42689	
xiv)	1400 mm.	Rmt	49198	
xv)	1500 mm.	Rmt	55408	
xvi)	1600 mm.	Rmt	61886	
xvii)	1700 mm.	Rmt	69135	
xviii)	1800 mm.	Rmt	76530	
<u>Notes</u>				
after la	lowering, laying & pouring of cement mortar in the field or lying and welding), rates as per P. S. C. pipes lowering, I g shall be adopted.		1	
	field welding rates applicable for similar welding in M. S. section shall be abopted.	. pipes given	2	$\hat{\boldsymbol{\Gamma}}$
jointing agreer	enever manufacturer is separate and contractor for low and testing is separate, the principal contractor shall be nent with B. W. S. C. pipe manufacturer for acturing transporting, lowering, laying, jointing and testing	enter into an satisfactory	5	
This fo	potnote shall appear into the tender condition.		P	
4) Only	/ 85% providing rates shall be payable till satisfatory Hydr	aulic testing is	given.	
	l negative tolerance shall be accepted for the M. S. Shell S. C. pipes over the thickness mentioned in E. N. 641 o			
	S			



DELETED

SECTION - I (VIII) GLASS REINFORCED PLASTIC PIPES (GRP)



SECTION - I (IX) H.D.P.E. PIPES

ir. Io.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs	.) 2024-25
1	2	3		4		5
	IX. H. D. P. E. PIPES	-				
<u>1.</u>	Providing and supplying in standard lengths Polyethelene Pipes, confirming to IS 4984 / 14151 / 12786 / 13488 with nesessary jointing material like mechanical connector i. e. thread / insert joint / quick release coupler joint / compression fitting joint or flanged joint excluding coupler/specials, including transportation and freight charges, inspection charges, loading / unloading charges, conveyance to the departmental stores & stacking the same in closed shade duly protecting from sunrays & rains, excluding GST levied by GI & GOM in all respect etc. complete.				D	6
	Note:- H.D.P.E. Pipes shall be as per latest IS Specifications Also HDPE pipes upto 110 mm Dia shall be in coil form				V	
4.)	PE-100, 6 Kg/Sq. cm :			n 1		
i)	63 mm	Rmt	112	1 m		
ii)	75 mm	Rmt	155			
iii)	90 mm	Rmt	220	~		
v)	110 mm	Rmt	319			
<u>v)</u>	125 mm	Rmt	437	1		
<u>vi)</u> /ii)	140 mm 160 mm	Rmt Rmt	549 711			
/ii) /iii)	180 mm	Rmt	895			
ix)	200 mm	Rmt	1049			
x)	225 mm	Rmt	1351			
xi)	250 mm	Rmt	1662			
<u>(ii)</u>	280 mm	Rmt	2081			
dii) (iv)	315 mm 355 mm	Rmt Rmt	2636 3341			
(V)	400 mm	Rmt	4376			
	450 mm	Rmt	5766			
	500 mm	Rmt	7130			
	560 mm	Rmt	8925			
	630 mm	Rmt	11232			
(X)	710 mm 800 mm	Rmt Rmt	14504			
<u>xi)</u> xii)	900 mm	<u>Rmt</u> Rmt	17483 22151			
	1000 mm	Rmt	27314			
B)	PE-100, 8 Kg/Sq. cm :					
i)	63 mm	Rmt	140			
ii) ;;;)	75 mm	Rmt Pmt	187			
iii) iv)	90 mm 110 mm	<u>Rmt</u> Rmt	266 391			
v) v)	125 mm	Rmt	507			
vi)	140 mm	Rmt	693			
/ii)	160 mm	Rmt	897			
<u>(iii)</u>	180 mm	Rmt	1133			
ix)	200 mm	Rmt Drest	1333			
x) xi)	225 mm 250 mm	Rmt Rmt	1712 2110			
<u>xi)</u> (ii)	280 mm	Rmt	2644			
dii)	315 mm	Rmt	3350			
(iv)	355 mm	Rmt	4238			
(V)	400 mm	Rmt	5564			
vi)	450 mm	Rmt	7439			
	500 mm	Rmt	9176			
	560 mm	Rmt Drest	11519			
(<u>ix)</u> (x)	630 mm 710 mm	<u>Rmt</u> Rmt	14494 18715			

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs	5.) 2024-2
1	2	3		4		5
	900 mm	Rmt	27892	-		Ĭ
	1000 mm	Rmt	28577			
C)	PE-100, 10 Kg/Sq. cm :					
i)	63 mm	Rmt	172			
ii)	75 mm	Rmt	243			
iii)	90 mm	Rmt	350			
iv)	110 mm	Rmt	515			
v)	125 mm	Rmt	661			
vi)	140 mm	Rmt	826			
vii)	160 mm	Rmt	1075			
viii)	180 mm	Rmt	1360			
ix)	200 mm	Rmt	1597			
X)	225 mm	Rmt	2043			
xi)	250 mm	Rmt	2549			1
xii)	280 mm	Rmt	3149			
xiii)	315 mm	Rmt	4043		NV	- T
xiv)	355 mm	Rmt	5072			
XV)	400 mm	Rmt	6757			
	450 mm	Rmt	8991			
	500 mm	Rmt	11113			
	560 mm	Rmt	13367			
xix)	630 mm	Rmt	17545			
XX)	710 mm	Rmt	22286	and in		
	800 mm	Rmt	26861	-		
xxii)	900 mm	Rmt	27180			
	1000 mm	Rmt	30538			
<u>D)</u>	PE-100, 12.5 Kg/Sq. cm :		004			
<u>i)</u>	63 mm	Rmt	204			
<u>ii)</u>	75 mm	Rmt	287			
iii)	90 mm	Rmt	414			
iv)	110 mm 125 mm	Rmt	609			
<u>v)</u>		Rmt	<u>787</u> 987			
<u>vi)</u> vii)	140 mm 160 mm	Rmt Rmt	1283			
	180 mm	Rmt	1621			
viii) ix)	200 mm	Rmt	1905			
<u>(X)</u> X)	225 mm	Rmt	2458			1
<u>xi)</u>	250 mm	Rmt	3023	1		1
xii)	280 mm	Rmt	3792			
	315 mm	Rmt	4801	1		
	355 mm	Rmt	6096	1		
XV)	400 mm	Rmt	8010	ł		
	450 mm	Rmt	10705	1		
	500 mm	Rmt	13194			
	560 mm	Rmt	16060			1
	630 mm	Rmt	21096			1
	710 mm	Rmt	21755			
	800 mm	Rmt	23831			1
	900 mm	Rmt	30191			
	1000 mm	Rmt	36770			1
			-	•		•

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs	s.) 2024-25
1	2	3	4	1		5
E)	PE-100, 16 Kg/Sq. cm :	3		•		5
i)	63 mm	Rmt	232			
ii)	75 mm	Rmt	330			
	90 mm	Rmt	473			
iv)	110 mm	Rmt	698			
v)	125 mm	Rmt	904			
v) vi)	140 mm	Rmt	1127			
	160 mm	Rmt	1479			
	180 mm	Rmt	1859			
	200 mm	Rmt	2921			
	225 mm	Rmt	3690			
	250 mm	Rmt	4552			
	280 mm	Rmt	5709		100	
	315 mm	Rmt	7216		1	
	355 mm	Rmt	9152		. 17	16 C
	400 mm	Rmt	11858		∇V	-
	450 mm	Rmt	15029			
	500 mm	Rmt	18535		1.0	
	560 mm	Rmt	20390			
	630 mm	Rmt	21409	\sim /		
	710 mm	Rmt	22855	Torne.		1
	800 mm	Rmt	27536			
	900 mm	Rmt	34853	~		
	1000 mm	Rmt	42791			
	Code complete with all materials for jointing procedure like Electrofusion machine, Electric heater/butt fusion welding machine with hydraulic jack, top loading clamp etc. and all labours as directed by engineer in charge as per IS-7634 Part II					
	For all classes.					
i)	20 mm	Rmt.	13			
ii)	25 mm	Rmt.	21			
iii)	32 mm	Rmt.	26			
	40 mm	Rmt.	35			
v)		Rmt.	41			
						1
	50 mm 63 mm		50			1
/i)	63 mm	Rmt.	<u>50</u> 54			
/i) /ii)			50 54 75			
/i) /ii) /iii)	63 mm 75 mm	Rmt. Rmt.	54			
vi) vii) viii) x)	63 mm 75 mm 90 mm 110 mm	Rmt. Rmt. Rmt. Rmt.	54 75			
/i) /ii) /iii) /x) x)	63 mm 75 mm 90 mm	Rmt. Rmt. Rmt.	54 75 78			
/i) /ii) /iii) x) x) x) xi)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm	Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120			
/i) /ii) /iii) x) x) xi) ki)	63 mm 75 mm 90 mm 110 mm 125 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90			
/ii) /iii) /iii) x) x) xi) kii)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 160 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130			
/ii) /iii) /iii) x) x) xi) xi) (ii) iiv)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 160 mm 180 mm 200 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 144			
vi) viii) (iii) ix) xi) xi) xi) xii) xii) xii) xiv) xv)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 160 mm 180 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130			
vi) /iii) /iii) ix) xi) xi) xi) xi) xi) xi)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 160 mm 180 mm 200 mm 225 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 130 144 185			
vi) /iii) /iii) ix) xi) xi) xi) xi) xi) xi)	63 mm 75 mm 90 mm 110 mm 125 mm 125 mm 140 mm 160 mm 180 mm 200 mm 225 mm 250 mm 250 mm 280 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 130 144 185 189 235			
vi) /ii) /iii) /iii) x) xi) xi) xi) (vi) vii) viii)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 160 mm 180 mm 200 mm 225 mm 250 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 130 144 185 189			
vi) /ii) /iii) /iii) xi) xi) xi) (iv) (iv) vii) vii) vii) vii)	63 mm 75 mm 90 mm 110 mm 125 mm 125 mm 140 mm 160 mm 180 mm 200 mm 225 mm 250 mm 250 mm 250 mm 251 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 130 144 185 189 235 259			
vi) (iii) (iii) (x) (x) (x) (x) (x) (x) (x) (x	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 140 mm 180 mm 200 mm 225 mm 250 mm 280 mm 315 mm 355 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 144 185 189 235 259 282			
√i) ∕iii) ∕iii) x) x) xi) xii) xii) xiii) xiii)	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 140 mm 180 mm 200 mm 225 mm 250 mm 280 mm 315 mm 355 mm 400 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 144 185 189 235 259 282 286			
vi) vii) ixi) ix) xi) xii) xii) xii) xii	63 mm 75 mm 90 mm 110 mm 125 mm 140 mm 140 mm 160 mm 200 mm 225 mm 250 mm 280 mm 315 mm 315 mm 355 mm 400 mm	Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt. Rmt.	54 75 78 90 120 130 130 144 185 189 235 259 282 286 323			

r.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
lo.						_
1	2	3		4		5
<u>3.</u>	Hydraulic testing of H. D. P. E./ M. D. P. E. pipe					
	line to specified pressure including cost of all					
	materials and labour and water for testing for					
	specified length including cutting, placing end cap making arrangement for filling safe water using					
	reciprocating type pumps which should be able to					
	provide specified test pressure gauges and other					
	necessary equipments, labour, operation charges,					
	etc. required for testing. The rate under this item					
	shall also include cost of retesting, if necessary					
	and reinstating to original position.					
i)	20 mm dia	Km.	1390			
ii)	25 mm dia	Km.	2779			
ii)	32 mm dia	Km.	2779			
v)	40 mm dia	Km.	4168		NV	-
<u>/)</u>	50 mm dia	Km.	4168			
/i) /ii)	63 mm dia 75 mm dia	Km. Km.	<u>5556</u> 5556		1	
<u>rii)</u> iii)	90 mm dia	Km. Km.	8335	0 1	- V	
<u>m)</u> x)	110 mm dia	Km.	8335	Am.		
x)	125 mm dia	Km.	9724			
(i)	140 mm dia	Km.	13891	and in		
ii)	160 mm dia	Km.	13891			
iii)	180 mm dia	Km.	13891			
	200 mm dia	Km.	15280			
<u>v)</u>	225 mm dia 250 mm dia	Km. Km.	20836 20836			
	280 mm dia	Km.	26393			
	315 mm dia	Km.	29172			
	355 mm dia	Km.	31949			
()	400 mm dia	Km.	31949			
	450 mm dia	Km.	36117			
	500 mm dia	Km.	45840			
	560 mm dia	Km.	51397			
<u>(IV)</u> 4.	630 mm dia Providing supplying in standard length (PE	Km.	58342			
•.	material) Structured-Wall plastic piping					
	system for non pressure underground drainage					
	and sewerage with smooth internal & corrugated					
	external surface confirming to IS 16098:Part-2					
	2013 with spigot or plain end with necessary					
	jointing material coupler including transportation					
	and freight charges, inspection charges, loading					
	and unloading charges, conveyance to					
	departmental store and stacking the same in					
	closed shade duly protecting from direct sun ray					
	and rains excluding GST levied by Gol and GoM in					
	all respect, etc. complete.					
	Rate for SN 4 and SN 8	<u> </u>	SN 4	SN 8		
	i) ID 135 mm dia	Rmt.	271	358		
	ii) ID 150 mm dia iii) ID 170 mm dia	Rmt. Rmt.	347 404	457 531		
	iv) ID 200 mm dia	Rmt.	404 552	730		
	v) ID 250 mm dia	Rmt.	911	1203		
	vi) ID 300 mm dia	Rmt.	1407	1858		
	vii) ID 400 mm dia	Rmt.	1899	2508		
	viii) ID 500 mm dia	Rmt.	3137	4141		
	ix) ID 600 mm dia	Rmt.	4774	6302		
	x) ID 800 mm dia	Rmt.	7742	10216		

r. o.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs	.) 2024-25
1	2	3		4		5
<u>.</u>	Lowering, Laying and Jointing (PE material)	•		İ		ľ –
	Structured-Wall plastic piping system for non					
	pressure underground by heating to the ends of					
	pipes with the help of tefflon coated electric heater					
	to the required temparature and then pressing the					
	ends together against each other, to form a					
	monolithic & leak proof joint by thermosetting					
	process. The pressing may be required to be done					
	with Jacks/ Hydraulic Jacks/Butt fusion machine					
	etc. complete with all materials labours as directed					
	by Engineer - in -charge.					
	by Engineer - In -charge.					
	Rate for SN 4 and SN 8			+		
	i) ID 135 mm dia	Rmt.	41		. 13	Ê.
	ii) ID 150 mm dia	Rmt.	45	1	<u> </u>	
	iii) ID 170 mm dia	Rmt.	49		1 -	
	iv) ID 200 mm dia	Rmt.	53			
	v) ID 250 mm dia	Rmt.	65		11	
	vi) ID 300 mm dia	Rmt.	81			
	vii) ID 400 mm dia	Rmt.	97	1 miles		
	viii) ID 500 mm dia	Rmt.	115			
	ix) ID 600 mm dia	Rmt.	133	-		
	x) ID 800 mm dia	Rmt.	155			
<u>).</u>	<u>Hydraulic testing of HDPE</u> (PE					
	material)Structured-Wall plastic piping					
	system for non pressure underground line to					
	specified pressure including cost of all materials					
	and labour and water for testing for specified					
	length including cutting, placing end cap making					
	arrangement for filling safe water using					
	reciprocating type pumps which should be able to					
	provide specified test pressure gauges and other	-				
	necessary equipments, labour, operation charges,					
	etc. required for testing. The rate under this item					
	shall also include cost of retesting, if necessary					
	and reinstating to original position					
	Rate for SN 4 and SN 8					
	i) ID 135 mm dia	Km.	4168			
	ii) ID 150 mm dia	Km.	4168			
	iii) ID 170 mm dia	Km.	5556	ļ		
	iv) ID 200 mm dia	Km.	5556			
	v) ID 250 mm dia	Km.	6946			
	vi) ID 300 mm dia	Km.	8335			
	vii) ID 400 mm dia	Km.	9724			
+	viii) ID 500 mm dia ix) ID 600 mm dia	Km.	11113 13891	<u> </u>		
-	(x) ID 600 mm dia (x) ID 800 mm dia	<u> </u>	13891 15280	<u> </u>		
-	Only 85% rates of providing item shall be	ΝſΠ.	15280	<u> </u>		
1	payable till satisfactory hydraulic testing is			1		



SECTION - I (X) M.D.P.E. PIPES

r. o.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs	s.) 2023-25
<u>0.</u> 1	2	3		4		5
	X. M. D. P. E. PIPES					
<u>I.</u>	Providing and Supplying Blue MDPE pipes					
	conforming to ISO 4427:1996 manufactured from virgin resin PE 80 Food grade compounded Raw					
	Material having Blue Colour only with quality					
	assurance certificate from quality agencies like WRC					
	/ CIPET (India) / DVGM / KIWA / SPGN etc. for					
	usage in Drinking Water system. The cost shall					
	include testing of all materials, Inspection charges,					
	transportation up to store, transit insurance, loading,					
	as specified and directed, unloading, stacking excluding GST levied by GOI & GOM in all respect,					
	etc. complete as specified and directed.				- D	
• •	PN 16 (SDR 9)					
<u>a)</u>	20 mm	Rmt	29	1		÷
i) i)	25 mm	Rmt	39			-
i) ii)	32 mm	Rmt	64		1	
v)	40 mm	Rmt	95	\sim 1		
/)	50 mm	Rmt	143	1 million		
., /i)	63 mm	Rmt	212			
ii)	75 mm	Rmt	285	and a		
, iii)	90 mm	Rmt	413	1		
x)	110 mm	Rmt	611	-		
()	125 mm	Rmt	789			
ci)	140 mm	Rmt	991			
ii)	160 mm	Rmt	1314			
iii)	180 mm	Rmt	1665			
iv)	200 mm	Rmt	2059			
v)	225 mm	Rmt	2606			
vi)	250 mm	Rmt	3205			
/ii)	280 mm	Rmt	4027			
/iii)))	315 mm <u>PN 12.5 (SDR 11)</u>	Rmt	5181			
<u> </u>		Durat	07			
i) i)	25 mm 32 mm	Rmt Rmt	37 61			
i) ii)	40 mm	Rmt	90			
v)	50 mm	Rmt	127			
/)	63 mm	Rmt	171			
/i)	75 mm	Rmt	238			
ii)	90 mm	Rmt	345			
iii)	110 mm	Rmt	507			
x)	125 mm	Rmt	661			
()	140 mm	Rmt	825			
a)	160 mm	Rmt	1080			
ii)	180 mm	Rmt	1402			
iii)	200 mm	Rmt	1717			
iv)	225 mm	Rmt	2174			
v) vi)	250 mm 280 mm	Rmt Rmt	2692 3355			
vi)		Rmt	0000	1		1

	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2023-25	
	2	3		4		5
	PN 10 (SDR 13.6)			<u> </u>		Ĭ
	63 mm	Rmt	146			
	75 mm	Rmt	205			
	90 mm	Rmt	294			
	110 mm	Rmt	435			
	125 mm	Rmt	560			
)	140 mm	Rmt	704			
)	160 mm	Rmt	919			
	180 mm	Rmt	1163			
	200 mm	Rmt	1433			
	225 mm	Rmt	1817			£
	250 mm	Rmt	2236	6	NV	7
	280 mm	Rmt	2803	-	1	
·	315 mm	Rmt	3540	-	V	
	PN 8 (SDR 17)					
	63 mm.	Rmt	116			
	75 mm	Rmt	166			
	90 mm	Rmt	239	1		
)	110 mm	Rmt	354	1		
	125 mm	Rmt	453			
)	140 mm	Rmt	569			
)	160 mm	Rmt	744			
)	180 mm	Rmt	945			
)	200 mm	Rmt	1163			
	225 mm	Rmt	1477			
)	250 mm	Rmt	1850			
)	280 mm	Rmt	2317			
	315 mm	Rmt	2936			
	PN 6 (SDR 21)			1		
	63 mm.	Rmt	90			
	75 mm.	Rmt	131	1		
)	90 mm	Rmt	185	1		
)	110 mm	Rmt	279			
1	125 mm	Rmt	353	1		
)	140 mm	Rmt	446	1		
)	160 mm	Rmt	583	1		
)	180 mm	Rmt	729	1		
	200 mm	Rmt	907	1		
	225 mm	Rmt	1148			
	250 mm	Rmt	1404			
	280 mm	Rmt	1774			
	315 mm	Rmt	2231	+		

Sr.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs	s.) 2023-25
<u>No.</u> 1	2	3		4		5
<u>2.</u>	Providing & Supply of Electro Fusion Fittings in			1		ĭ –
	accordance with BS EN12201: Part-3 suitable for					
	drinking water with in black/ blue colour manufactured					
	from compounded PE80/ PE100 virgin polymer and					
	compatible with PE80/PE100 pipes, in pressure rating					
	SDR11 with min PN12.5 rated for water application					
	and shall be inclusive of all cost such as testing,					
	inspection charges, transportation up to store, transit					
	inspection charges, transportation up to store, transit insurance, loading, unloading, stacking excluding					
	GST levied by GOI & GOM in all respect, etc.					
	complete.					
					- D	
	Couplers 20	No.	49			
	Couplers 25	No.	54		. 1.7	S
	Couplers 32	No.	59		VV	÷
	Couplers 40	No.	68			
	Couplers 50	No.	83		1	
	Couplers 63	No.	146		1	
	Couplers 75	No.	195	\sim		
	Couplers 90	No.	254			
	Couplers 110	No.	293			
	Couplers 125	No.	371	1		
	Couplers 140	No.	488			
	Couplers 160	No.	585			
	Couplers 180	No.	878			
	Couplers 200	No.	1073			
	Couplers 225	No.	1366			
	Couplers 250	No.	1756			
	Couplers 280	No.	2634			
	Couplers 315	No.	3414			
	Couplers 355	No.	5664			
	Couplers 400	No.	7303			
	Couplers 450	No.	13369			
	Couplers 500	No.	13621			
	Equal Tee					
	Equal Tee 20	No.	143			
	Equal Tee 25	No.	151			
	Equal Tee 32	No.	157			
	Equal Tee 40	No.	283			
	Equal Tee 50	No.	337			
	Equal Tee 63	No.	341			
	Equal Tee 75	No.	458			
	Equal Tee 90	No.	624			
	Equal Tee 110	No.	852			
	Equal Tee 125	No.	1366			
	Equal Tee 140	No.	1951			
	Equal Tee 160	No.	2439			
	Equal Tee 180	No.	2927			
	Equal Tee 200	No.	3512			
	Equal Tee 225	No.	5853			
- 1	Equal Tee 250	No.	11706			
	Equal Tee 280	No.	16237	ļ		
	Equal Tee 315	No.	14712	ļ		
	Equal Tee 400	No.	20503			

Sr. No.	Description	Unit	Rate (F	Rs.) 2023-24	Rate (Rs.)	2023-25
1	2	3		4	5	
	Elbow 90 Deg.					
		Ne	440			
	Elbow 90 Deg. 20	No.	118 118			
	Elbow 90 Deg. 25 Elbow 90 Deg. 32		118		<u> </u>	
	Elbow 90 Deg. 40	No.	120			
	Elbow 90 Deg. 40	No.	192			
	Elbow 90 Deg. 63	No.	267			
	Elbow 90 Deg. 75	No.	419			
	Elbow 90 Deg. 90	No.	493			
	Elbow 90 Deg. 110	No.	679			
	Elbow 90 Deg. 125	No.	866			
	Elbow 90 Deg. 140	No.	1439			
	Elbow 90 Deg. 160	No.	1894			
	Elbow 90 Deg. 180	No.	2195			
	Elbow 90 Deg. 200	No.	2842			ř.
	Elbow 90 Deg. 225	No.	6193			
	Elbow 90 Deg. 250	No.	11604	· •		
	Elbow 90 Deg. 280	No.	12207			
	Elbow 90 Deg. 315	No.	11807	- 1		
	Elbow 90 Deg. 400	No.	15994			
	Elbow 45 Dec				├	
	Elbow 45 Deg.					
	Elbow 45 Deg. 32	No.	127			
	Elbow 45 Deg. 40	No.	154	1		
	Elbow 45 Deg. 50	No.	183			
	Elbow 45 Deg. 63	No.	255	1		
	Elbow 45 Deg. 75	No.	398			
	Elbow 45 Deg. 90	No.	469			
	Elbow 45 Deg. 110	No.	679			
	Elbow 45 Deg. 125	No.	866			
	Elbow 45 Deg. 140	No.	1283			
	Elbow 45 Deg. 160	No.	1594			
	Elbow 45 Deg. 180	No.	2090			
	Elbow 45 Deg. 200	No.	2195			
	Elbow 45 Deg. 225	No.	2842			
	Elbow 45 Deg. 250	No.	6193			
	Elbow 45 Deg. 280	No.	9368			
	Elbow 45 Deg. 315	No.	11773			
	Elbow 45 Deg. 400	No.	15968			
	Reducer					
					↓↓	
	Reducer 25X20	No.	160			
	Reducer 32X20	No.	167			
	Reducer 32X25	No.	176			
	Reducer 40X32	No.	190			
1	Reducer 50X32	No.	190		<u>├</u>	
-	Reducer 50X40	No.	190		<u>├</u>	
	Reducer 63X32	No.	229		┼──┼	
					├	
-	Reducer 63X40	No.	229		├ ──── ├	
1	Reducer 63X50	No.	229		ļļ	
	Reducer 75 x 63	No.	519			
	Reducer 90X63	No.	569			
	Reducer 90X75	No.	577			
	Reducer 110X50	No.	703			
	Reducer 110X63	No.	703			
	Reducer 110X75	No.	738		<u>∤</u>	
	Reducer 110X90	No.	738		+ +	
					├	
	Reducer 125X90	No.	820		├	
	Reducer 125X110	No.	952		ļļ	
	Reducer 140X75	No.	1049			
	Reducer 140X90	No.	1147			

Sr. No.	Description	Unit	Rate (R	s.) 2023-24	Rate (Rs	s.) 2023-25
1	2	3		4		5
-	Reducer 140X125	No.	1341	T		
	Reducer 160X90	No.	1377			
	Reducer 160X110	No.	1451			
	Reducer 160X125	No.	1607			
	Reducer 160X140	No.	1699			
	Reducer 180X110	No.	1792			
	Reducer 180X125	No.	1808			
	Reducer 180X140	No.	1958			
	Reducer 180x160	No.	2032			
	Reducer 200X63	No.	2087			
	Reducer 200X90	No.	2229			
	Reducer 200X110	No.	2588		100	
	Reducer 200X140	No.	2467			
	Reducer 200X160	No.	2407	-		
	Reducer 200X160	NO.	2142		1.4	17 C
	Reducer 225X140	NO.	2493		1	
	Reducer 225X140 Reducer 225X160		3134		1	
		No.		01		
	Reducer 250X110	No.	4019			
	Reducer 250X140	No.	4352			
	Reducer 250X160	No.	4329	-		
	Reducer 250X200	No.	4733			
	Reducer 315X140	No.	7159			
	Reducer 315 x 200	No.	8995			
	Reducer 315 x 250	No.	9120			
	Reducer 400 x 200	No.	9688			
	Reducer 400 x 315	No.	10404			
	End Cap					
	End Cap 20	No.	41			
	End Cap 25	No.	41			
	End Cap 32	No.	59			
	End Cap 40	No.	63			
	End Cap 50	No.	67			
	End Cap 63	No.	89			
	End Cap 75	No.	327			
	End Cap 90	No.	371			
	End Cap 90 End Cap 110	No.	522	-		1
	End Cap 110 End Cap 125	NO.	662	+		
	End Cap 125 End Cap 140	NO.	1082			
	End Cap 140 End Cap 160		1062			
		No.				
	End Cap 180	No.	1286			
_	End Cap 200	No.	2179			
	End Cap 225	No.	3743			
-	End Cap 250	No.	4824			
	End Cap 315	No.	7982			
	Ferrule Tapping Tee					
	Ferrule tapping tee 63 x 1/2"	No.	390			
	Ferrule tapping tee 63 x 3/4"	No.	439			
	Ferrule tapping tee 63 x 1"	No.	488			
	Ferrule tapping tee 75 x 1/2"	No.	439			
	Ferrule tapping tee 75 x 3/4"	No.	488			
	Ferrule tapping tee 75 x 1"	No.	537			
	Ferrule tapping tee 90 x 1/2"	No.	439			
	Ferrule tapping tee 90 x 3/4"	No.	488			1
	Ferrule tapping tee 90 x 1"	No.	537			
				-		+
	Ferrule tapping tee 90 x 1%"	No.	792			

r.	Description	Unit	Rate (R	s.) 2023-24	Rate (Rs	.) 2023-25
o .						.,
	2	3		4		5
	Ferrule tapping tee 90 x 2"	No.	801			
	Ferrule tapping tee 110 x 1/2"	No.	488			
	Ferrule tapping tee 110 x 3/4"	No.	537			
	Ferrule tapping tee 110 x 1"	No.	585			
	Ferrule tapping tee 110 x 1 %"	No.	801			
	Ferrule tapping tee 100 x 1 [^]	No.	801			
	Ferrule tapping tee 110 x 2"	No.	801			
	Ferrule tapping tee 160 x 1/2"	No.	616			
	Ferrule tapping tee 160 x 3/4"	No.	616			
	Ferrule tapping tee 160 x 1 "	No.	616			
	Ferrule tapping tee 160 x 1%"	No.	872			
	Ferrule tapping tee 160 x 1 [^]	No.	872			
	Ferrule tapping tee 160 x 2"	No.	872			R
	Ferrule tapping tee 200 x 1/2"	No.	585	1		÷
	Ferrule tapping tee 200 x 3/4"	No.	683			-
	Ferrule tapping tee 200 x 1"	No.	780		1.2	
	Ferrule tapping tee 200 x 1 %"	No.	1255	-		
	Ferrule tapping tee 200 x 1	No.	1255	\cap	-	
	Ferrule tapping tee 200 x 1	No.	1255			
	Ferrule tapping tee 250 x 1/2"	No.	870			
	Ferrule tapping tee 250 x 1/2	No.	870			
	Ferrule tapping tee 250 x 3/4	No.	870			
	Ferrule tapping tee 250 x 1 %"	No.	1255	1		
	Ferrule tapping tee 250 x 1 %					
		No.	1255			
	Ferrule tapping tee 250 x 2"	No.	1255			
	Ferrule tapping tee 315 x 1/2"	No.	1036			
	Ferrule tapping tee 315 x 3/4"	No.	1036			
	Ferrule tapping tee 315 x 1 "	No.	1036			
	Ferrule tapping tee 315 x 1 %"	No.	1407			
	Ferrule tapping tee 315 x 1	No.	1407			
	Ferrule tapping tee 315 x 2"	No.	1407			
	Electrofusion Reducing Tee					
	Reducing Tee 32 x 32 x 20	No.	139			
	Reducing Tee 32 x 32 x 25	No.	138			
	Reducing Tee 40 x 40 x 20	No.	313			
	Reducing Tee 40 x 40 x 25	No.	307	1		
	Reducing Tee 40 x 40 x 32	No.	339	1		
	Reducing Tee 50 x 50 x 20	No.	348			
	Reducing Tee 50 x 50 x 25	No.	357			
	Reducing Tee 50 x 50 x 32	No.	370	+		
	Reducing Tee 50 x 50 x 40	No.	388			
-	Reducing Tee 63 x 63 x 20	No.	558	+		
	Reducing Tee 63 x 63 x 20 Reducing Tee 63 x 63 x 25	No.	556	+		
-	Reducing Tee 63 x 63 x 32	No.	584	+		
-	<u> </u>		599			
	Reducing Tee 63 x 63 x 40	No.				
	Reducing Tee 63 x 63 x 50	No.	620			
	Reducing Tee 75 x 75 x 40	No.	793			
	Reducing Tee 75 x 75 x 50	No.	805			
	Reducing Tee 75 x 75 x 63	No.	823			
	Reducing Tee 90 x 90 x 50	No.	1155			
	Reducing Tee 90 x 90 x 63	No.	1180			
	Reducing Tee 90 x 90 x 75	No.	1200			
	Reducing Tee 110 x 110 x 50	No.	1595			
	Reducing Tee 110 x 110 x 63	No.	1621			
	Reducing Tee 110 x 110 x 75	No.	1594			
	Reducing Tee 110 x 110 x 90	No.	1675			
	Reducing Tee 125 x 125 x 63	No.	2150			

Sr.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Re	s.) 2023-25
No.						
1	2	3		4		5
	Reducing Tee 125 x 125 x 75	No.	2174			
	Reducing Tee 125 x 125 x 90	No.	2202			
	Reducing Tee 125 x 125 x 110	No.	2228			
	Reducing Tee 140 x 140 x 75	No.	2617			
	Reducing Tee 140 x 140 x 90	No.	2694			
	Reducing Tee 140 x 140 x 110	No.	2992			
	Reducing Tee 140 x 140 x 125	No.	3056			
	Reducing Tee 160 x 160 x 50	No.	3707 3765			
	Reducing Tee 160 x 160 x 63	No.	3785			
	Reducing Tee 160 x 160 x 75	No.				
	Reducing Tee 160 x 160 x 90	No.	3875		-	
	Reducing Tee 160 x 160 x 110	No.	3961			
	Reducing Tee 180 x 180 x 160	No.	4208	-		
	Reducing Tee 160 x 160 x 140	No.	4376	(V	W.
	Reducing Tee 180 x 180 x 140	No.	4516			
	Reducing Tee 180 x 180 x 160	No.	4097 3414			
	Reducing Tee 200 x 200 x 63	No.		~ 1		
	Reducing Tee 200 x 200 x 75 Reducing Tee 200 x 200 x 90	No. No.	4195 6926	1		
	Reducing Tee 200 x 200 x 110	No.	7121	~		
	Reducing Tee 200 x 200 x 140	No.	7414			
	Reducing Tee 200 x 200 x 160	No.	7511	/		
	Reducing Tee 250 x 250 x 63	No.	7804 8292	· · · · · ·		
	Reducing Tee 250 x 250 x 75	No.	100h			
	Reducing Tee 250 x 250 x 90	No.	8780 10731			
	Reducing Tee 250 x 250 x 110	No.	1000			
	Reducing Tee 250 x 250 x 140	No.	12123 3902			
	Reducing Tee 250 x 250 x 160	No.	3902			
	Reducing Tee 250 x 250 x 200 Reducing Tee 315 x 315 x 200	No. No.	4780			
	Reducing Tee 315 x 315 x 200 Reducing Tee 315 x 315 x 250		4780			
		No.	20917			
	Reducing Tee 400 x 400 x 110	No.				
	Reducing Tee 400 x 400 x 160	No.	21385 21841			
	Reducing Tee 400 x 400 x 200	No.				
	Reducing Tee 400 x 400 x 250 Reducing Tee 400 x 400 x 315	No. No.	22169 22518			
	Spigot Long Neck Pipe End (Stub End) for Electro Fusion joint		22310			
	LNPE 63	No.	195			
	LNPE 75	No.	293			
	LNPE 90	No.	390			
-	LNPE 110	No.	516			
	LNPE 125	No.	1166			
	LNPE 140	No.	1328			
	LNPE 160	No.	1900			
	LNPE 180	No.	2146			
	LNPE 200	No.	3012			
	LNPE 225	No.	3317			
	LNPE 250	No.	4097			
	LNPE 280	No.	4643			

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs	s.) 2023-25
1 3.	2 Providing & Supply of Compression fittings. PN16 rated in conformation to ISO:14236-2000 and shall be tested as per ISO:3459, ISO:3501 & ISO:3503, suitable for drinking water & approved by WRAS, UK/ KIWA etc, in food grade polypropylene and shall be inclusive of all cost such as testing, inspection charges, transportation up to store, transit insurance, loading, unloading, stacking excluding GST levied by GOI & GOM in all respect, etc. complete.	3		4		5
	Male Adaptor				- 10. · ·	
	Male Adaptor 20 x 1/2"	No.	66			F
	Male Adaptor 25 x 3/4"	No.	76	1		÷
	Male Adaptor 32 x 1"	No.	98			
	Male Adaptor 40 x 1 %"	No.	178			
	Male Adaptor 50 x IV2"	No.	235	0.1	V.	
	Male Adaptor 63 x 2"	No.	332	0		
	Female Adaptor		\cap	1		
	Female Adaptor 20 x 1/2"	No.	70	1		
	Female Adaptor 25 x 3/4"	No.	83	1		
	Female Adaptor 32 x 1 "	No.	105			
	Female Adaptor 40 x 1 %"	No.	197			
	Female Adaptor 50 x m"	No.	250			
	Female Adaptor 63 x 2"	No.	353			
	Coupling					
	Coupling 20 x 20	No.	58			
		No.	57			
	Coupling 25 x 25	No.	71			
	Coupling 32 x 32	No.	139			
	Coupling 40 x 40	No.	177			
	Coupling 50 x 50	No.	261			
	Coupling 63 x 63 Reducing Coupling					
		No.	110			
	Reducing Coupling 25 x 20	No.	110			
-	Reducing Coupling 32 x 20	No.	128			
-	Reducing Coupling 32 x 25	No.	218			
	Reducing Coupling 40 x 25	No.	218			
-	Reducing Coupling 40 x 32	No.	218			
	Reducing Coupling 50 x 32	No.	281			
	Reducing Coupling 50 x 40					
	Reducing Coupling 63 x 50	No.	400			
	90 Deg. Bothside compression Elbow	NI-	50			
	90 Deg. Elbow 20	No.	59			
	90 Deg. Elbow 25 90 Deg. Elbow 32	No. No.	68 98			
	90 Deg. Elbow 32 90 Deg. Elbow 40	No.	200			
	90 Deg. Elbow 40 90 Deg. Elbow 50	No.	200			
	90 Deg. Elbow 50 90 Deg. Elbow 63	110.	201			

Sr. No.	Description	Unit	Rate (R	s.) 2023-24	Rate (Rs	s.) 2023-25
1	2	3		4		5
	90 Deg. Elbow threaded male off take					
	90 Deg. Elbow threaded male off take 20 x 1/2"	No.	44			
	90 Deg. Elbow threaded male off take 25 x 3/4"	No.	54			
	90 Deg. Elbow threaded male off take 32 x 1"	No.	68			
	90 Deg. Elbow threaded male off take 40 x 1/4"	No.	98			
	90 Deg. Elbow threaded male off take 50 x 1/2"	No.	176			
	90 Deg. Elbow threaded male off take 63 x 2"	No.	283			
	90 Deg. Elbow threaded female off take					
	90 Deg. Elbow threaded Female off take 20 x 1/2"	No.	44			
	90 Deg. Elbow threaded Female off take 25 x 3/4"	No.	54			
	90 Deg. Elbow threaded Female off take 32 x 1"	No.	68	1		S
	90 Deg. Elbow threaded Female off take 40 x 1 %"	No.	156		1.7	
	90 Deg. Elbow threaded Female off take 50 x 1 'A"	No.	224			
	90 Deg. Elbow threaded Female off take 63 x 2"	No.	341	\cap	V	
	Equal Tee		0.11	0		
	Equal Tee 20 x 20 x 20	No.	124	1		
	Equal Tee 25 x 25 x 25	No.	162	1		
	Equal Tee 32 x 32 x 32	No.	209	1		
	Equal Tee 40 x 40 x 40	No.	347	-		
	Equal Tee 50 x 50 x 50	No.	469			
	Equal Tee 63 x 63 x 63	No.	667			
	End Cap					
	End Cap 20	No.	30			
	End Cap 25	No.	30			
	End Cap 32	No.	43			
	End Cap 40	No.	47			
	End Cap 50	No.	48			
	End Cap 63	No.				





SECTION - I (XI) P.C.C. PIPES

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
1	2	3	4			5
	XI. P. C. C. PIPES Providing and Supplying					
<u>1.</u>	Prestressed Concrete Cylinder Pipes					
	suitable for sliding ovrelap weld joint or confined					
	rubber ring joint with necessary rubber ring of					
	following class and diameter including cost of					
	transportation, inspection charges to store, transit insurance, unloading and stacking					
	excluding GST levied by GOI & GOM in all					
	respect etc. complete.					
	i) Factory test pressure a) Site test pressure +					
	01N/mm2, For working pressure upto 1 N/mm2					
	b) Site test pressure + 02N/mm2, For working					6
	pressure upto 1 N/mm2 ii) <u>Site</u> test pressure - 1.5 times working			1		
	pressure pertaining to the section or 1.1 times			- N.		
	static pressure, which ever is more (such					
	pressure is to be control within 25% of		1	~ 2	N.	
	pumphead incase of pumping main)			5		
	iii) Working pessure - The maximum sustained					
	internal pressure excluding surge to which each portion of pipeline my be subjected when					
	installed. <u>As Per 784 : 2001 a) F T P - 4</u>	1		/		
	Kg/Sq. cm	. \				
,	350 mm	Rmt	5624			
,	400 mm	Rmt	6181			
,	450 mm	Rmt Rmt	6791 7514			
,	500 mm 600 mm	Rmt	9086			
,	700 mm	Rmt	10497			
,	800 mm	Rmt	11822			
	900 mm	Rmt	14487			
,	1000 mm	Rmt	16730			
,	1100 mm	Rmt	18731			
xi)	1200 mm	Rmt	20593			
xii)	1300 mm	Rmt	23794			
xiii)	1400 mm	Rmt	25838			
xiv)	1500 mm	Rmt	28909			
xv)		Rmt	32198			
xvi)	1700 mm.	Rmt	34235			
xvii)	1800 mm.	Rmt	36264			
<u>b)</u>	<u>T P - 5.5 Kg/Sq. cm</u>					
,	350 mm	Rmt	5624			
,	400 mm	Rmt	6210			
,	450 mm	Rmt	6828			
,	500 mm	Rmt	7557			
,	600 mm	Rmt	9149			
,	700 mm	Rmt	10580			
,	800 mm	Rmt	11958			
viii)	900 mm	Rmt	14621			

Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-2	
1	2	3		4		5
ix)	1000 mm	Rmt	16895			
x)	1100 mm	Rmt	18947			
xi)	1200 mm	Rmt	21614			
xii)	1300 mm	Rmt	24144			
xiii)	1400 mm	Rmt	26286			
xiv)	1500 mm	Rmt	29377			
xv)	1600 mm	Rmt	32688			
xvi)	1700 mm.	Rmt	34721			
xvii)	1800 mm.	Rmt	36756			
<u>c)</u>	<u>F T P - 7 Kg/Sq. cm</u>					¢.
i)	350 mm	Rmt	5636	6	∇V	-
ii)	400 mm	Rmt	6235		1.4	
iii)	450 mm	Rmt	6857			
iv)	500 mm	Rmt	7598	0-1		
V)	600 mm	Rmt	9210	0		
vi)	700 mm	Rmt	10680	-		
vii)	800 mm	Rmt	12129	11		
viii)	900 mm	Rmt	14809			
ix)	1000 mm	Rmt	17151			
X)	1100 mm	Rmt	19260			
xi)	1200 mm	Rmt	21988			
xii)	1300 mm	Rmt	24588			
xiii)	1400 mm	Rmt	27022			
xiv)	1500 mm	Rmt	29420			
xv)	1600 mm	Rmt	32734			
xvi)	1700 mm.	Rmt	34770			
xvii)	1800 mm.	Rmt	36802			
<u>d)</u>	F T P - 8.5 Kg/Sq. cm					
i)	350 mm	Rmt	5658			
ii)	400 mm	Rmt	6271			
iii)	450 mm	Rmt	6893			
iv)	500 mm	Rmt	7641			
V)	600 mm	Rmt	9293			
vi)	700 mm	Rmt	10805			
vii)	800 mm	Rmt	12300			
viii)	900 mm	Rmt	15018			
ix)	1000 mm	Rmt	17408			
x)	1100 mm	Rmt	19572			
xi)	1200 mm	Rmt	22554			
xii)	1300 mm	Rmt	25236			
xiii)	1400 mm	Rmt	27537			
xiv)	1500 mm	Rmt	29956			
xv)	1600 mm	Rmt	33292			
xvi)	1700 mm.	Rmt	35326			
xvii)	1800 mm.	Rmt	37358			



Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
1	2		4	5
<u>e)</u>	<u>F T P - 10 Kg/Sq. cm</u>			
i)	350 mm	Rmt	5679	
ii)	400 mm	Rmt	6295	
iii)	450 mm	Rmt	6937	
iv)	500 mm	Rmt	7705	
V)	600 mm	Rmt	9382	
vi)	700 mm	Rmt	10927	
	800 mm	Rmt	12486	
viii)	900 mm	Rmt	15227	
ix)	1000 mm	Rmt	17663	
x)	1100 mm	Rmt	20063	nv:
xi)	1200 mm	Rmt	22934	
xii)	1300 mm	Rmt	25686	
xiii)	1400 mm	Rmt	28062	
xiv)	1500 mm	Rmt	30506	
xv)	1600 mm	Rmt	33870	
	1700 mm.	Rmt	35903	
	1800 mm.	Rmt	37936	
<u>f)</u>	<u>F T P - 11.5 Kg/Sq. cm</u>			
i)	350 mm	Rmt	5702	
,	400 mm	Rmt	6334	
iii)	450 mm	Rmt	6987	
,	500 mm	Rmt	7769	
v)	600 mm	Rmt	9476	
vi)	700 mm	Rmt	11052	
vii)	800 mm	Rmt	12834	
<u> </u>	900 mm	Rmt	14092	
ix)	1000 mm	Rmt	17923	
x)	1100 mm	Rmt	20383	
xi)	1200 mm	Rmt	23319	
xii)	1300 mm	Rmt	26142	
xiii)	1400 mm	Rmt	28596	
xiv)	1500 mm	Rmt	31060	
xv)	1600 mm	Rmt	34444	
xvi)	1700 mm.	Rmt	36479	
xvii)	1800 mm.	Rmt	38513	
<u>g)</u>	<u>F T P - 13 Kg/Sq. cm</u>			
i)	350 mm	Rmt	5745	
ii)	400 mm	Rmt	6386	
iii)	450 mm	Rmt	7046	
iv)	500 mm	Rmt	7834	
v)	600 mm	Rmt	9567	
vi)	700 mm	Rmt	11177	
vii)	800 mm	Rmt	13047	
viii)	900 mm	Rmt	15645	

Sr. No.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
1	2	3		4		5
ix)	1000 mm	Rmt	18299			
x)	1100 mm	Rmt	20707			
xi)	1200 mm	Rmt	23711			
xii)	1300 mm	Rmt	26602			
xiii)	1400 mm	Rmt	29120			
xiv)	1500 mm	Rmt	31610			
xv)	1600 mm	Rmt	35020			
xvi)	1700 mm.	Rmt	37051			
xvii)	1800 mm.	Rmt	39070			
<u>h)</u>	<u>F T P - 14.5 Kg/Sq. cm</u>					¢.
i)	350 mm	Rmt	5796		∇V	-
ii)	400 mm	Rmt	6443		1	
iii)	450 mm	Rmt	7119			
iv)	500 mm	Rmt	7909	0-1		
V)	600 mm	Rmt	9665	0		
vi)	700 mm	Rmt	11913	1		
vii)	800 mm	Rmt	13258	11		
viii)	900 mm	Rmt	16007			
ix)	1000 mm	Rmt	18567			
X)	1100 mm	Rmt	21029			
xi)	1200 mm	Rmt	24096			
xii)	1300 mm	Rmt	27055			
xiii)	1400 mm	Rmt	30435			
xiv)	1500 mm	Rmt	32981			
xv)	1600 mm	Rmt	36450			
xvi)	1700 mm.	Rmt	38483			
xvii)	1800 mm.	Rmt	40516			
<u>i)</u>	<u>F T P - 17 Kg/Sq. cm</u>					
i)	350 mm	Rmt	5842			
ii)	400 mm	Rmt	6503			
iii)	450 mm	Rmt	7189			
iv)	500 mm	Rmt	7996			
V)	600 mm	Rmt	9790			
vi)	700 mm	Rmt	11433			
vii)	800 mm	Rmt	13515			
viii)	900 mm	Rmt	16235			
ix)	1000 mm	Rmt	18837			
x)	1100 mm	Rmt	21370			
xi)	1200 mm	Rmt	24489			
xii)	1300 mm	Rmt	27517			
xiii)	1400 mm	Rmt	31020			
xiv)	1500 mm	Rmt	33596			
xv)	1600 mm	Rmt	37090			
xvi)	1700 mm.	Rmt	39125			
xvii)	1800 mm.	Rmt	41158			



Sr. No.	Description	Unit	Rate (Rs.) 2023-2	4 Rate (Rs.) 2024-25
1	2	3	4	5
<u>i)</u>	<u>F T P - 18.5 Kg/Sq. cm</u>			
i)	350 mm	Rmt	5886	
ii)	400 mm	Rmt	6562	
iii)	450 mm	Rmt	7262	
iv)	500 mm	Rmt	8083	
V)	600 mm	Rmt	9913	
vi)	700 mm	Rmt	11576	
vii)	800 mm	Rmt	13960	
viii)	900 mm	Rmt	16519	- D
ix)	1000 mm	Rmt	19160	
x)	1100 mm	Rmt	21704	AVA-
xi)	1200 mm	Rmt	24881	
xii)	1300 mm	Rmt	28840	
xiii)	1400 mm	Rmt	31826	/ ×
xiv)	1500 mm	Rmt	33741	
xv)	1600 mm	Rmt	37244	
xvi)	1700 mm.	Rmt	39278	
,	1800 mm.	Rmt	41311	
<u>k)</u>	F T P - 20 Kg/Sq. cm	Turre		
i)	350 mm	Rmt	5933	
i) ii)	400 mm	Rmt	6623	
iii)	450 mm	Rmt	7335	
iv)	500 mm	Rmt	8175	
v)	600 mm	Rmt	10036	
vi)	700 mm	Rmt	11863	
vii)	800 mm	Rmt	14293	
viii)	900 mm	Rmt	16896	
ix)	1000 mm	Rmt	19604	
X)	1100 mm	Rmt	22218	
xi)	1200 mm	Rmt	26183	
xii)	1300 mm	Rmt	29460	
xiii)	1400 mm	Rmt	32530	
xiv)	1500 mm	Rmt	34475	
xv)	1600 mm	Rmt	38008	
	1700 mm.	Rmt	40043	
xvii)	1800 mm.	Rmt	42076	
D	<u>F T P - 21.5 Kg/Sq. cm</u>			
i)	350 mm	Rmt	5986	
ii)	400 mm	Rmt	6682	
iii)	450 mm	Rmt	7405	
iv)	500 mm	Rmt	8262	
V)	600 mm	Rmt	10183	
vi)	700 mm	Rmt	12444	
vii)	800 mm	Rmt	14521	
viii)	900 mm	Rmt	17272	
ix)	1000 mm	Rmt	20051	

No.	Description	Unit	Rate (Re	s.) 2023-24	Rate (Rs.) 2024-2		
1	2	3		4		5	
x)	1100 mm	Rmt	23337				
xi)	1200 mm	Rmt	26832				
xii)	1300 mm	Rmt	30144				
xiii)	1400 mm	Rmt	34315				
xiv)	1500 mm	Rmt	36338				
xv)	1600 mm	Rmt	39955				
xvi)	1700 mm.	Rmt	41988				
xvii)	1800 mm.	Rmt	44023				
<u>m)</u>	<u>F T P - 23 Kg/Sq. cm</u>						
i)	350 mm	Rmt	6031			¢	
ii)	400 mm	Rmt	6739			1	
ii)	450 mm	Rmt	7481		1		
iv)	500 mm	Rmt	8349	- 1			
v)	600 mm	Rmt	10397	\sim			
vi)	700 mm	Rmt	12837				
vii)	800 mm	Rmt	14966	~			
viii)	900 mm	Rmt	17646	1			
ix)	1000 mm	Rmt	20496	1			
X)	1100 mm	Rmt	23956				
xi)	1200 mm	Rmt	27495				
xii)	1300 mm	Rmt	30999				
xiii)	1400 mm	Rmt	34952				
xiv)	1500 mm	Rmt	37001				
xv)	1600 mm	Rmt	40645				
xvi)	1700 mm.	Rmt	42679				
xvii)	1800 mm.	Rmt	44710				
<u>n)</u>	<u>F T P - 24.5 Kg/Sq. cm</u>						
i)	350 mm	Rmt	6077				
ii)	400 mm	Rmt	6801				
iii)	450 mm	Rmt	7554				
iv)	500 mm	Rmt	8440				
V)	600 mm	Rmt	10815				
vi)	700 mm	Rmt	13013				
,	800 mm	Rmt	14982				
viii)	900 mm	Rmt	17946				
ix)	1000 mm	Rmt	21458				
X)	1100 mm	Rmt	24576				
xi)	1200 mm	Rmt	28161				
xii)	1300 mm	Rmt	33457				
xiii)	1400 mm	Rmt	35619				
xiv)	1500 mm	Rmt	37695				
xv)	1600 mm	Rmt	41368				
xvi)	1700 mm.	Rmt	43399				
xvii)	1800 mm.	Rmt	45434				

Sr. No.	Description Unit		Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2	3	4		5		
1)	For PCCP pipes lowering, laying, and pouring of cement mortar in the field on joints (after laying a welding), rates as per PSC pipes lowering, laying jointing shall be adopted.						
2)	For field welding rates applicable for similar weldi MS pipes given in that section shall be adopted.	ing in					
3)	Whenever manufacturer is separate and contrac for lowering, laying, jointing and testing is separat principal contractor shall enter into an agreement PCCP pipe manufacturer for satisfactory manufacturing transporting, lowering, laying, joint and testing of pipes.	te the with			D	<i>.</i>	
	This foot notes shall appear in the tender conditions.			(
4)	Only 85% providing rates shall be payable til satisfactory Hydraulic testing is given.		(2	V		



SECTION - I (XII) PIPE APPURTENANCES



Sr. No.	Description		Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2	3	4			5	
	XII. PIPES APPURTENANCES						
1.	Providing and supplying ISI mark CI D/F reflux						
	valves (non-return valves) of following dia						
	including railway freight, inspection charges,						
	unloading from railway wagon, loading into						
	truck, transportation upto departmental stores,						
	unloading, stacking excluding GST levied by						
	GOI & GOM in all respect etc. complete.						
	Reflux valves as per I.S.5312 Part I (1984)						
<u>a)</u>	Without by pass arrangement -PN -1						
i)	50 mm.	No.	3983				
 ii)	65 mm.	No.	4662			~	
iii)	80 mm.	No.	4910	-		~	
iv)	100 mm.	No.	6856	1			
V)	125 mm.	No.	9788				
vi)	150 mm.	No.	11851		11		
vii)	200 mm.	No.	21301	-			
	250 mm.	NO.	36353				
<u>ix)</u>	300 mm.	No.	49812				
<u>x)</u>	350 mm.	No.	77480	1			
xi)	400 mm.	No.	92161	-			
xii)	450 mm.	No.	132523				
xiii)	500 mm.	No.	196361				
xiv)	600 mm.	No.	240456				
xv)	700 mm.	No.	564029				
<u>b)</u>	With by pass arrangement - PN -1		-				
i)	80 mm.	No.	5669				
<u>ii)</u>	100 mm.	No.	8076				
<u>iii)</u>	125 mm.	No.	10998				
iv)	150 mm.	No.	13060				
<u>v)</u>	200 mm.	No.	24348				
<u>vi)</u>	250 mm. 300 mm.	No.	39799				
vii)		No.	53422				
viii)	350 mm.	No.	87587				
	400 mm.	No.	105988				
<u>x)</u>	450 mm.	No.	137514				
<u>xi)</u>	500 mm.	No.	223175				
	600 mm.	No.	276523				
	700 mm.	No.	853841				
	750 mm.	No.	934608				
	800 mm.	No.	1015376				
	900 mm. 1000 mm.	No. No.					
XVII)		INO.					
<u>c)</u>	Without by pass arrangement - PN -1.6						
i)	50 mm.	No.	3884				
ii)	65 mm	No.	4196				
iii)	80 mm.	No.	6883				
iv)	100 mm.	No.	8818				
V)	125 mm.	No.	12284				
vi)	150 mm	No.	16698				
	200 mm.	No.	29237				
	250 mm.	No.	46936				
ix)	300 mm.	No.	63455				
X)	350 mm.	No.	96851				
	400 mm.	No.	115204				
	450 mm.	No.	154013				
xiii)	500 mm.	No.	245449				
xiv)	600 mm.	No.	300569				
	600 mm. 700 mm.	No.	444257				



Sr. No.	Description	Unit	Rate (Rs.) 2023-24	4 Rate (Rs.) 2024-25
1	2	3	4	5
xvii)	800 mm.	No.	580255	
xviii)	900 mm.	No.	734382	
	1000 mm.	No.	906647	
	1100 mm	No.	1097039	
	1200 mm	No.	1306050	
,,,,,		110.	1000000	
<u>d)</u>	<u>With by pass arrangement - PN -1.6</u>			
i)	50 mm.	No.	3986	
ii)	65 mm	No.	4488	
iii)	80 mm.	No.	6604	
iv)	100 mm.	No.	8539	
V)	125 mm.	No.	11933	
	150 mm	No.	14483	
vii)	200 mm.	No.	29252	
viii)	250 mm.	No.	44203	
	300 mm.	No.	66784	
	350 mm.	No.	103192	
	400 mm.	No.	132485	1
	450 mm.	No.	158141	10 M
	500 mm.	No.	256693	4 ×
	600 mm.	No.	345654	
	700 mm.	No.	452495	
	750 mm.	No.	519446	Ø.
	800 mm.	No.	591014	
	900 mm.	No.	748003	
	1000 mm.	No.	923458	
	1100 mm	No.	1117386	
	1200 mm	No.	1329780	
	arrangements as per test pressure, stainless steel spindle, caps, including inspection charges, transportation upto departmental store, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. complete.	P		
<u>a)</u>	Sluice valves - PN -1 (Without by pass)			
i)	50 mm.	No.	5038	
	65 mm.	No.	5959	
	80 mm.	No.	6158	
	100 mm.	No.	8202	
V)	125 mm.	No.	10258	
vi)	150 mm.	No.	12301	
vii)	200 mm.	No.	22297	
viii)	250 mm.	No.	34472	
ix)	300 mm.	No.	43765	
	350 mm.	No.	64381	
xi)	400 mm.	No.	84762	
	450 mm.	No.	91128	
xiii)	500 mm.	No.	131340	
xiv)	600 mm.	No.	194586	
xv)	700 mm.	No.	361691	
xvi)	750 mm.	No.	409742	
xvii)	800 mm.	No.	499825	
	900 mm.	No.	655400	
	1000 mm.	No.	980216	
	1100 mm	No.	1256654	
	1200 mm.	No.	1485761	
<u>b)</u>	<u>Sluice valves - PN -1.0 (With by pass arrangement)</u>			



Sr.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
<u>No.</u>	2	3		4		5
i)	50 mm.	No.	5286	+		,
ii)	65 mm.	No.	5972			
iii)	80 mm.	No.	6158			
iv)	100 mm.	No.	8202			
v)	125 mm.	No.	10258			
vi)	150 mm.	No.	12954			
vii)	200 mm.	No.	22338			
	250 mm.	No.	34513			
ix)	300 mm.	No.	43804			
x)	350 mm.	No.	66774			
	400 mm.	No.	84888			
xii)	450 mm.	No.	104660			
xiii)	500 mm.	No.	131537			
xiv)	600 mm.	No.	194874			1
	700 mm.	No.	367786		_	×
xvi)	750 mm.	No.	410149			
	800 mm.	No.	500318			
	900 mm.	No.	656048		1	
	1000 mm.	No.	995176			
	1100 mm	No.	1257899	0		
	1200 mm.	No.	1487180	la.		
<u>c)</u>	<u>Sluice valve - PN - 1.6 (Without by pass arrangement)</u>		\cap	2		
i)	50 mm.	No.	6313	1		
ii)	65 mm.	No.	7447	1		
iii)	80 mm.	No.	8110			
iv)	100 mm.	No.	10806			
v)	125 mm.	No.	13501			
vi)	150 mm.	No.	14320			
vii)	200 mm.	No.	27877			
viii)	250 mm.	No.	43103			
ix)	300 mm.	No.	54736			
x)	350 mm.	No.	83345			
	400 mm.	No.	105805			
xii)	450 mm.	No.	130748			
xiii)	500 mm.	No.	164088			
xiv)	600 mm.	No.	243174			
	700 mm.	No.	368329			
	750 mm.	No.	410756			
	800 mm.	No.	501061			
	900 mm.	No.	657022			
	1000 mm.	No.	1013501			
XX)	1100 mm	No.	1259767			
xxi)	1200 mm.	No.	1489438			
<u>d)</u>	<u>Sluice valve - PN - 1.6 (With by pass arrangement)</u>					
i)	50 mm.	No.	6988			
ii)	65 mm.	No.	7462			
iii)	80 mm.	No.	8124			
	100 mm.	No.	10826			
v)	125 mm.	No.	13520			
	150 mm.	No.	16192			
vii)	200 mm.	No.	27917			
viii)	250 mm.	No.	43144			
	300 mm.	No.	54774			
X)	350 mm.	No.	83467			
	400 mm.	No.	105964			
xii)	450 mm.	No.	130943			
	500 mm.	No.	164330			
	600 mm.	No.	243536			
	700 mm.	No.	368785			
XV)	750 mm.					



Sr.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25
No.	-		-		-	-
1	2	3		4		5
	800 mm.	No.	501682			
	900 mm.	No.	657834			
	1000 mm.	No.	1014751			
	1100 mm 1200 mm.	No. No.	1261321 1491278			
)		INU.	1491270			
<u>3</u>	Providing, <u>double</u> <u>flanged</u> <u>short</u> <u>body</u>					
	pattern type manually operated Butterfly					
	Valve having body, disc and end cover in					
	graded cast iron to IS-210 Gr.CF 200					
	generally confirming to IS-13095-1991,					
	Synthetic rubber faced ring secured on disc by					
	retaining ring with stainless steel screw stub				- D.	
	shaft of stainless steel riding in teflon bearing					
	including inspection charges, transportation up				\sim	~
	to departmental store, unloading, stacking					
	excluding GST levied by GOI & GOM in all					
	respect etc. excluding C.C. foundation					
	/structural steel support.			~	1 V	
				()_"		
<u>a)</u>	Butterfly valve - PN - 1 (With by pass					
	arrangement)					
i)	80 mm.	No.	6991			
	100 mm.	No.	8938	1		
_	125 mm.	No.	10194	1		
<u>_</u>	150 mm.	No.	13176			
	200 mm.	No.	17558			
vi)	250 mm.	No.	21948			
	300 mm.	No.	34727			
_	350 mm.	No.	56981			
	400 mm.	No.	70693			
	450 mm.	No.	82517			
	500 mm. 600 mm.	No. No.	89136 104388			
	700 mm.	No.	156521			
	750 mm.	No.	185366			
	800 mm.	No.	197423			
xvi)	900 mm.	No.	253459			
	1000 mm.	No.	326755			
	1100 mm	No.	700386			
	1200 mm.	No.	662753			
	1400 mm	No.	1010527			
xxi)	1500 mm	No.	1255628			
b)	Butterfly valve - PN - 1.6 (With by pass					
	arrangement)					
	<u>anangemeny</u>					
i)	80 mm.	No.	7758			
	100 mm.	No.	10158			
iii)	125 mm.	No.	11215			
	150 mm.	No.	15151			
	200 mm.	No.	20196			
	250 mm.	No.	25240			
	300 mm.	No.	39936 71226			
viii) ix)	350 mm. 400 mm.	No. No.	87254			
	450 mm.	No.	100807			
	500 mm.	No.	110687			
	600 mm	No.	130486			
	700 mm	No.	195650			
	750 mm	No.	231707			
		No.	246780			
XV)	800 mm	INU.	240700			



Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2	3	4				
xvii)	1000 mm	No.	408443				
xviii)	1100 mm	No.	828445				
xix)	1200 mm	No.	875472				
XX)	1400 mm	No.	1263160				
	1500 mm	No.	1558924				
<u>4.</u>	Lowering, laying and jointing in position following <u>C.I.D/F Reflex valves</u> , <u>Butterfly</u> <u>valves and Sluice valves</u> including cost of all labour jointing material, including nut bolts and giving satisfactory hydraulic testing etc. complete. (Rate for all class of valves.)						
i)	50 mm.	No.	933			>	
	65 mm.	No.	1401			~	
	80 mm.	No.	1947				
	100 mm.	No.	2545				
v)	125 mm.	No.	3167				
	150 mm.	No.	3998	-	4		
	200 mm.	No.	4160	-			
<u> </u>	250 mm.	No.	5420	100			
	300 mm.	No.	5621				
	350 mm.	No.	6927	and .			
X)			8357				
	400 mm.	No.		1			
	450 mm.	No.	9944	4			
<u> </u>	500 mm.	No.	10297				
	600 mm.	No.	10930				
	700 mm.	No.	11785				
	750 mm.	No.	12977				
	800 mm.	No.	15464				
	900 mm.	No.	16409				
	1000 mm.	No.	19344				
XX)	1100 mm.	No.	22336				
xxi)	1200 mm.	No.	24545				
<u>b.</u>	Giving satisfactory <u>hydraulic testing of</u> following C. I. D / F <u>Reflex valves</u> , <u>Butterfly</u> valves and Sluice valves.						
i)	50 mm.	No.	105				
ii)	65 mm.	No.	157				
iii)	80 mm.	No.	217				
iv)	100 mm.	No.	282				
(v)	125 mm.	No.	352				
	150 mm.	No.	445				
vii)	200 mm.	No.	463				
	250 mm.	No.	601				
ix)	300 mm.	No.	625		İ		
	350 mm.	No.	771				
	400 mm.	No.	931				
		No.	1105				
	450 mm.	No.	1146				
xii)	500 mm.						
	600 mm.	No.	1215				
	700 mm.	No.	1310				
<u> </u>	750 mm.	No.	1441				
	800 mm.	No.	1719				
	900 mm.	No.	1824				
xix)	1000 mm.	No.	2150				
XX)	1100 mm.	No.	2483				
xxi)	1200 mm. to 1500 mm	No.	2726				



Sr. No.	Description		Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25		
1	2 Providing and supplying Air Valves as per IS- 14845-2000 and MJP's standard specifications of approved make and quality of following diameters including railway freight, inspection charges, unloading from railway wagons, loading into truck, transportation upto departmental stores, unloding and stacking excluding GST levied by GOI & GOM in all respect etc. complete.	3	4		5		
<u>5.</u>							
<u>a)</u>	<u>Air Valve Single Ball</u> Flanged / <u>Screwed</u> <u>Type - PN -1</u>						
i)	12/15 mm.	No.	760		1		
ii)	20 mm.	No.	917		- 1	X.	
iii)	25 mm.	No.	1265			× *	
iv)	32 mm.	No.	1381				
V)	40 mm.	No.	1520		1		
vi)	50 mm.	No.	1669	\sim	V		
<u>b)</u>	<u>Air Valve Single Ball Flanged / Screwed</u> <u>Type - PN -1.6</u>		0	5			
i)	12/15 mm.	No.	890				
ii)	20 mm.	No.	1265	11			
iii)	25 mm.	No.	1520	1			
iv)	32 mm.	No.	1638				
V)	40 mm.	No.	1756				
vi)	50 mm.	No.	2291				
<u>6.</u>	Providing and <u>supplying Air Valves</u> as per IS- 14845 and MJP's standard specifications double orifice type combined with screw down isolating valve, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including insurance, third party inspection charges, loading, unloading, transportation upto departmental stores, excluding GST levied by GOI & GOM in all respect etc. complete.						
<u>a)</u>	<u>Air Valve Double Ball Flanged Type - PN -1</u>						
i)	50 mm.	No.	7020				
ii)	65 mm.	No.	8191				
iii) <u>b)</u>	80 mm. <u>Air Valve Double Ball Flanged Type - PN -</u> <u>1.6</u>	No.	9355				
1)		No	9299				
i) ii)	50 mm. 65 mm.	No. No.	10530				
<u> </u>	80 mm.	NO.	13030				
···/		110.	13030				

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Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-2
1	2 3 4			5		
<u>7.</u>	Providing and <u>supplying Air Valves</u> as per IS- 14845-2000 and MJP's standard specifications double orifice type combined with isolating sluice valve, mounted in horizontal position and operated by wheel gearing, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including insurance, third party inspection charges, loading, unloading, transportation upto departmental store, excluding GST levied by GOI & GOM in all respect etc. complete.					
<u>a)</u>	Air Valve Double Ball Flanged Type - PN -1			(n'	
i)	100 mm.	No.	11831		1	
ii)	150 mm.	No.	21560		A 11	
iii)	200 mm.	No.	36259	3	· ·	
<u>b)</u>	<u>Air Valve Double Ball Flanged Type - PN - 1.6</u>		0	5		
i)	100 mm.	No.	18088	1		
ii)	150 mm.	No.	25481	7		
iii)	200 mm.	No.	42853			
<u>8.</u>	Providing and supplying Kinetic Double Orifice type Air Valves confirming to IS 14845 as per MJP's standard specifications combined with screw down isolating valve, small orifice elastic ball resting on a gun metal orifice nipple, large orifice vulcanite ball seating on moulded seat ring, inlet face and drilled, including insurance, third party inspection charges, loading, unloading, transportation upto departmental stores, excluding GST levied by GOI & GOM in all respect etc. complete.	l				
<u>a)</u>	Kinetic Air Valve Flanged Type - PN -1					
i)	40 mm.	No.	10877			
ii)	50 mm.	No.	12295			
iii)	80 mm.	No.	14423			
<u>b)</u>	Kinetic Air Valve Flanged Type - PN -1.6					
i)	40 mm.	No.	13595			
ii)	50 mm.	No.	15368			
iii)	80 mm.	No.	18028			

Sr. No.	Description	Description Unit Rate (Rs.) 2023-24		24 Rate	(Rs.) 2024-25
1	2	3	4		5
<u>9.</u>	Providing and <u>supplying</u> <u>Kinetic</u> <u>Double</u>				
	<u>Orifice</u> type <u>Air</u> <u>Valves</u> confirming to IS				
	14845 as per MJP's standard specifications				
	having small orifice elastic ball resting on a				
	gun metal orifice nipple, large orifice vulcanite				
	ball seating on moulded seat ring,with built-in				
	Kinetic features, isolating sluice valve				
	mounted in horizontal position and operated				
	by wheel gearing, inlet face and drilled,				
	including insurance, third party inspection				
	charges, loading, unloading, transportation		1		
	upto departmental stores, excluding GST			X	
	levied by GOI & GOM in all respect etc.			V -	
	complete.			1	
	<u>a) Kinetic Air Valve Flanged Type - PN -1</u>		0-11		
	i) 100 mm.	No.	15722		
	ii) 150 mm.	No.	21990		
	iii) 200 mm.	No.	34283		
	b) Kinetic Air Valve Flanged Type - PN -1.6				
	i) 100 mm.	No.	19656		
	ii) 150 mm.	No.	27485		
	iii) 200 mm.	No.	42853		
<u>10.</u>	Lowering, laying and fixing in proper				
	alignment and position all types of C.I. <u>air</u>				
	valves as directed by Engineer-in-charge				
	including cost of conveyance from stores to				
	site of work, cost of all material and giving				
	satisfactory hydraulic testing, etc. complete.				
	(for all class of valves).				



Sr. No.	Description		Rate (Rs.) 2023-24	Rate (Rs.) 2024-25		
1	2	3	4	5		
<u>a)</u>	Air Valve Single Ball (PN-1 and PN - 1.6)					
i)	15 mm.	No.	149			
ii)	20 mm.	No.	188			
iii)	25 mm.	No.	244			
iv)	32 mm.	No.	270			
V)	40 mm.	No.	288			
vi)	50 mm.	No.	312			
vii)	65 mm.	No.	329			
	80 mm.	No.	344			
<u>ix)</u>	100 mm.	No.	384			
<u>x)</u>	125 mm.	No.	466			
xi)	150 mm.	No.	517			
xii)	200 mm.	No.	569			
<u>b)</u>	Air Valve Double Ball (PN-1 and PN - 1.6)			OVO.		
i)	15 mm.	No.	162			
ii)	20 mm.	No.	202	1		
iii)	25 mm.	No.	244	A 10		
iv)	32 mm.	No.	276			
)	40 mm.	No.	323			
vi)	50 mm.	No.	373			
vii)	65 mm.	No.	430			
viii)	80 mm.	No.	513			
ix)	100 mm.	No.	542			
	125 mm.	No.	596			
xi) xii)	150 mm. 200 mm.	No.	815 897			
		110.				
	<u>c) Kinetic Air Valve (PN-1 and PN - 1.6)</u>					
i)	40 mm.	No.	370			
ii)	50 mm.	No.	428			
iii)	65 mm.	No.	466			
iv)	80 mm.	No.	513			
V)	100 mm.	No.	564			
vi)	125 mm.	No.	615			
vii)	150 mm.	No.	883			
viii)	200 mm.	No.	961			
11.	Providing erecting Cast Steel/ Spheroidal					
-	Graphite (S.G) Iron D/F Sluice Valves /					
	Butterfly Valves with jointing to pipe work					
	(including all hardware and packing) water					
	works quality, having non-rising spindle with					
	hand wheel and without bypass arrangement,					
a	spindle of stainless steel as per requirement,					
	inspection charges, transportation upto					
11	departmental store, unloading, stacking,					
	excluding GST levied by GOI & GOM in all					
and a	respect etc. excluding C. C. foundation /					
1						
	structural steel support.					



Sr. No.	Description		Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2	3	4			5	
A)	A) For Rating Class 150 (Working						
1	Pressure 20 kg/cm2 and Test Pressure 30						
	kg/cm2)						
a)	Sluice Valves. CS-150						
<u> </u>			10100				
<u>i)</u>	80 mm dia. 100 mm dia.	No.	18136				
<u>ii)</u> iii)	100 mm dia. 150 mm dia.	No. No.	<u>24179</u> 36269				
iv)	200 mm dia.	No.	56564				
v)	250 mm dia.	No.	81401				
	300 mm dia.	No.	104152				
	350 mm dia.	No.	138870				
	400 mm dia.	No.	231733				
	450 mm dia.	No.	316176			V	
x)	500 mm dia.	No.	371971			~	
xi)	600 mm dia.	No.	424666	- (
<u>b)</u>	Butterfly Valves. CS-150				. 1/		
i)	300 mm	No.	130967	\cap	× ×		
<u>i)</u> ii)	350 mm	No.	139618				
<u>iii)</u>	400 mm	No.	156820				
iv)	450 mm	No.	167060	100			
v)	500 mm	No.	193385				
vi)	600 mm	No.	217633	1			
'		110.	211000				
<u>12.</u>	Providing erecting Cast Steel D/F Sluice						
	Valves / Butterfly Valves with jointing to pipe						
	work (including all hardware and packing)						
	water works quality having non-rising spindle	- 11.	1				
	with hand wheel and without bypass		e -				
	arrangement, spindle of stainless steel as per	1.0					
	requirement, inspection charges,	5					
	transportation upto departmental store,	r					
	unloading, stacking, excluding GST levied by						
	GOI & GOM in all respect etc. excluding C. C.						
	foundation / structural steel support.						
	For Rating Class 300 (Working Pressure						
	52 kg/cm2 and Test Pressure 78 kg/cm2)						
a)	Sluice Valves CS-300						
<u></u> i)	80 mm	No.	18244				
ii)	100 mm	No.	28804				
iii)	150 mm	No.	43915				
iv)	200 mm	No.	68874			1	
V)	250 mm	No.	74347			1	
vi)	300 mm	No.	125334			1	
vii)	350 mm	No.	211379				
	400 mm	No.	308365				
ix)	450 mm	No.	371274				
x)	500 mm	No.	578411				
xi)	600 mm	No.	874252				
<u>b)</u>	Butterfly Valves CS-300						
i)	300 mm	No.	149326				
<u>i)</u> ii)	350 mm	No.	159191				
<u>iii)</u>	400 mm	No.	178804				
		NO.	190480				
is n	450 mm						
iv)	500 mm	No	22000000				
v) vi)	500 mm 600 mm	No. No.	220496 248142				

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Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
1	2	3	4	5
<u>13.</u>	Providing erecting Cast Steel /Spheroidal Graphite (S.G.) Iron D/F Reflux Valves Single Door with jointing to pipe work (including all hardware and packing) water works quality with jointing to pipe without bypass arrangement, with gunmental seats including inspection charges, transportation upto departmental store, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. completed but excluding C. C. foundation / structural steel support.			
	For Rating <u>Class</u> <u>150</u> (Working Pressure 20 kg/cm2 and Test Pressure 30 kg/cm2)			
	Reflux valve CS-150			
i)	80 mm	No.	11827	
ii)	100 mm	No.	18109	
iii)	150 mm	No.	30679	1
iv)	200 mm	No.	58332	
v)	250 mm	No.	101569	/
vi)	300 mm	No.	133812	
,				
<u>14.</u>	Providing erecting Cast Steel D/F Reflux Valves Single door with jointing to pipe work (including all hardware and packing) water works quality with jointing to pipe without bypass arrangement, with gunmetal seat including inspection charges, transportation upto departmental store, unloading, stacking excluding GST levied by GOI & GOM in all respect etc. completed but excluding excluding C. C. foundation / structural steel support.	l)		
	52 kg/cm2 and Test Pressure 78 kg/cm2) Reflux valve CS-300			
i)	80 mm	No.	18854	
ii)	100 mm	No.	26575	
iii)	150 mm	No.	44194	
iv)	200 mm	No.	78292	
V)	250 mm	No.	141745	
vi)	300 mm	No.	172584	
<u>15.</u>	Providing, erecting <u>Kinetic</u> <u>Double</u> <u>Orifice</u> <u>Cast Steel Air Valves</u> with an isolating Sluice Valve mounted in horizontal position operated by wheel gear suitable for working pressure of Class 300 rating (52 kg/cm2)			



Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs	.) 2024-25
1	2	3		4		5
	Air valve CS-150					
i)	80 mm	No.	36560			
ii)	100 mm	No.	50960			
iii)	150 mm	No.	97652			
iv)	200 mm	No.	126228			
<u>16.</u>	Providing, erecting Kinetic Double Orifice					
	Cast Steel Air Valves with an isolating Sluice					
	Valve mounted in horizontal position operated					
	by wheel gear suitable for working pressure of					
	Class 300 rating (52 kg/cm2)					
	KDB Air valve CS-300					
i)	80 mm	No.	44540			
ii)	100 mm	No.	50915			X
iii)	150 mm	No.	118980			
iv)	200 mm	No.	143622			
.,					1 1	
17.	Providing and fixing in position air valve				A 11	-
<u></u>	shaft including providing and fixing GI Medium			\sim		
				L los		
	Class or 6 mm thick M.S. pipe shaft 2.70 M					
	long over branch flange of air valve tee,			1		
	providing PCC block of M-150 concrete, 150					
	mm thick around the air valve tee including		- I	1		
	encasing of vertical shaft in PCC M-150 as			1		
	shown in type design together with providing			1		
	and making flanged joints wherever required					
	Tand making hanged joints wherever required		and a second			
	and fixing of air valve tee, etc. complete as per					
	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in-		1			
	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines	U	1			
	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in-	U	1			
	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines	l				
	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.)	ļ				
a)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines	l				
a)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata.	No.	6415			
i)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm	<u>No.</u>	<u>6415</u> 7515			
i) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm	No.	7515			
i) ii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm	No. No.	7515 15284			
i) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm	No.	7515			
i) ii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm	No. No.	7515 15284			
i) ii) iii) iv)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm	No. No.	7515 15284			
i) ii) iii) iv)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm	No. No.	7515 15284 19192			
i) ii) iii) iv) <u>b)</u>	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm	No. No. No.	7515 15284 19192 7600			
i) iii) iii) iv) <u>b)</u> i) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil.	No. No. No. No. No.	7515 15284 19192 7600 9168			
i) iii) iii) iv) <u>b)</u> ii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) iii) iii) iv) <u>b)</u> i) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm	No. No. No. No. No.	7515 15284 19192 7600 9168			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) iii) iii) iv) <u>b)</u> ii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u>	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) iv) <u>b)</u> i) ii) iii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete.	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) b) ii) iii) iii) iv) 18.	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458			
i) ii) iii) iv) <u>b)</u> ii) iii) iii) iv) 18 . a)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1	No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894			
i) ii) iii) iv) <u>b)</u> ii) iii) iii) iv) 18 . 18 . 18 . 18 .	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1 25 mm	No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894			
i) ii) iii) iv) <u>b)</u> ii) iii) iii) iv) <u>18.</u> a) i) ii) iii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1 25 mm 40 mm 50 mm	No. No. No. No. No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894 21894 4769 6215 8048			
i) ii) iii) iv) <u>b)</u> ii) ii) iii) iv) <u>18.</u> a) i) ii) ii) ii) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1 25 mm 40 mm 50 mm	No. No. No. No. No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894 21894 4769 6215 8048 12205			
i) ii) iii) iv) <u>b)</u> ii) ii) iii) iv) <u>18.</u> a) ii) ii) iii) iii) vv) v)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1 25 mm 40 mm 50 mm 80 mm	No. No. No. No. No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894 21894 4769 6215 8048 12205 17086			
i) ii) iii) iv) <u>b)</u> ii) ii) iii) iv) <u>18.</u> a) i) ii) ii) ii) ii)	and fixing of air valve tee, etc. complete as per type design and as directed by Engineer -in- charge for following diameters of pipe lines (type design attached.) Foundation on Murum and Harder Strata. upto 150mm 200 to 400 mm 450 to 900mm 1000 to 1200 mm Foundation in B. C. Soil or Any Other Soil. upto 150 mm 200 to 400 mm 450 to 900 mm 1000 to 1200 mm Providing and supplying <u>C.I. D/F angle type</u> spring loaded pressure relief valves of approved make and quality including inspection charges, transportation to departmental stores excluding GST levied by GOI & GOM in all respect etc. complete. Type PN-1 25 mm 40 mm 50 mm	No. No. No. No. No. No. No. No. No. No.	7515 15284 19192 7600 9168 17458 21894 21894 4769 6215 8048 12205			



Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
1	2	3	4	5
ix)	250 mm	No.	82632	
x)	300 mm	No.	108974	
b)	Type PN-1.6			
i)	25 mm	No	5962	
ii)	40 mm	No	7764	
iii)	50 mm	No	8801	
iv)	80 mm	No	14126	
<u>v)</u>	100 mm	No	19394	
vi)	125 mm	No	29113	
vii)	150 mm	No	33275	
viii)	200 mm 250 mm	No No	73476	
ix)		No	103289 136536	
×)	300 mm	NO	130330	
<u>19.</u>	Lowering. laying and fixing in proper alignment and position all types of C.I. D/F angle type spring loaded pressure relief valves including cost of all material, labour, cost of conveyance from stores to site of work and giving satisfactory hydraulic testing, etc. complete. (For all class of valves.)		6	2
i)	25 mm	No	279	
ii)	40 mm	No	370	
	50 mm	No	429	
iv)	80 mm	No	512	
v)	100 mm	No	561	
vi)	125 mm	No	625	
vii)	150 mm	No	883	
viii)	200 mm	No	962	
ix)	250 mm	No	1123	
x)	300 mm	No	1282	
<u>20.</u>	<u>Cutting and champhering of pipes</u> of following diameters including cost of all materials and labour involved, etc. complete as directed by Engineer-in-charge (for all class of pipes).			
<u>a)</u>	<u>C.I.Pipes</u>			
i)	80 mm	No	50	
ii)	100 mm	No	58	
iii)	150 mm	No	90	
iv)	200 mm	No	113	
V)	250 mm	No	162	
vi)	300 mm	No	193	
vii)	350 mm	No	198	
viii)	400 mm	No	251	
ix)	450 mm	No	292	
x)	500 mm 600 mm	No No	348 426	
xii)	700 mm	No	502	
xiii)	750 mm	No	599	
xiv)	800 mm	No	654	
XV	900 mm	No	719	
xvi)	1000 mm	No	783	



No.	Description	Unit Rate (Rs.) 2023-2) 2023-24	23-24 Rate (Rs.) 2024-2		
1	2		4	1		5	
21.	Providing and supplying I.S.I. mark rubber	3				Ī	
	gasket suitable for C.I. or D. I. pipe of all						
	class for tyton joints including inspection						
	charges, transportation upto departmental						
	stores excluding GST levied by GOI & GOM in						
	all respect etc. complete.						
<u>a)</u>	S.B.R. Gaskets for C. I. / D.I. Pipes						
i)	80 mm	No	45				
ii)	100 mm	No	50				
<u> </u>	150 mm	No	70		-		
iv)	200 mm	No	119				
v)	250 mm	No	154				
vi)	300 mm	No	218				
vii)	350 mm	No	249	(S - 5	
	400 mm	No	346				
ix)	450 mm	No	378				
					A 11	<u> </u>	
	500 mm	No	515	~ ~		L	
	600 mm	No	715	1 1 9			
xii)	700 mm	No	1273				
	750 mm	No	1323				
	800 mm	No	1371	and the			
	900 mm	No	1982	-			
xvi)	1000 mm	No	2546	11			
<u>b)</u>	Sealing 'O' Rings of SBR (for CID Joints)			/ · · · · ·			
_							
i)	80 mm	Set.	51				
ii)	100 mm	Set.	64				
iii)	125 mm	Set.	74				
iv)	150 mm	Set.	87				
2	Elet Elenged Caskets moulded out of SPR	-					
<u>c)</u>	Flat Flanged Gaskets moulded out of SBR (ForFlanged Joints)	P					
	(ForFlanged Joints)	No	05				
i)	(ForFlanged Joints) 80 mm	No.	95				
i) ii)	(ForFlanged Joints) 80 mm 100 mm	No.	126				
i)	(ForFlanged Joints) 80 mm 100 mm 125 mm	No. No.	126 150				
i) ii)	(ForFlanged Joints) 80 mm 100 mm	No.	126				
i) ii) iii) iv)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm	No. No.	126 150 205				
i) ii) iii) iv) v)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm	No. No. No.	126 150 205 254				
i) ii) iii) iv) v) vi)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm	No. No. No. No. No.	126 150 205 254 356				
i) ii) iii) iv) v) vi) vi)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm	No. No. No. No. No.	126 150 205 254 356 378				
i) iii) iv) v) vi) vii) viii)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm	No. No. No. No. No. No.	126 150 205 254 356 378 458				
i) iii) iv) v) vi) vii) viii) ix)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm	No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566				
i) iii) iv) v) vi) vii) viii)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618				
i) iii) iv) v) vi) vii) viii) ix)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm	No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566				
i) iii) iv) v) vi) vii) viii) ix) x) xi	(ForFlanged Joints) 80 mm 100 mm 125 mm 125 mm 200 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725				
i) iii) iv) v) vi) vii) viii) viii) ix) x) xi) xii)	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618				
i) iii) iv) v) vi) vii) viii) viii) ix) x) xi	(ForFlanged Joints) 80 mm 100 mm 125 mm 125 mm 200 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725				
i) iii) iii) v) vi) vii) viii) ix) xii) xii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes	No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975				
i) iii) iii) iv) v) vi) viii) ix) x) xi) xii) xi	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975				
i) iii) iii) iv) v) vi) vii) ix) x) xi) xii) xi	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 52 52				
i) iii) iiv) vv) vi) vii) viii) ix) xx) xii) xii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm.	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 52 52 54 82				
i) iii) iii) iv) v) vi) viii) ix) x) xi) xii) xi	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Froviding Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 52 54 82 137				
i) iii) iiv) vv) vi) vii) viii) ix) xx) xii) xii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm.	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 52 52 54 82				
i) iii) iii) iv) v) vi) viii) viii) ix) x) xi) xii) iii) i	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 975 52 54 82 137 187				
i) iii) iv) v) vi) viii) viii) ix) x) xi) xii) iii) i	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 300 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 618 725 975 975 52 54 82 137 187 246				
i) iii) iiv) v) vi) vii) viii) iix) xx) xii) xii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 300 mm. 300 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 618 725 975 975 52 54 82 137 187 246 287				
i) iii) iiv) vvi) viii) viii) iix) xx) xii) xii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 200 mm. 300 mm. 300 mm. 400 mm. 350 mm. 400 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 54 82 137 187 246 287 393				
i) iii) iii) iv) vi) vii) viii) ix) xi) xi) xii) iii) i	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 300 mm. 350 mm. 400 mm. 350 mm. 400 mm. 350 mm. 400 mm. 350 mm. 400 mm. 450 mm.	No. No. No. No. No. No. No. No. No. No No No No No No No No No No No No No	126 150 205 254 356 378 458 566 618 725 975 975 975 52 54 82 137 187 246 287 393 439				
i) iii) iii) iv) vi) vii) viii) ix) xi) xi) xi) xii) iii) i	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 200 mm. 300 mm. 300 mm. 400 mm. 350 mm. 400 mm.	No. No. No. No. No. No. No. No. No. No.	126 150 205 254 356 378 458 566 618 725 975 975 52 54 82 137 187 246 287 393 439 582				
i) iii) iii) iv) vi) vii) viii) ix) xi) xi) xi) xi) ii) iii) i	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 350 mm. 400 mm. 450 mm. 200 mm. 250 mm. 300 mm. 350 mm. 400 mm. 350 mm. 400 mm. 350 mm. 300 mm. 350 mm. 300 mm. 350 mm. 400 mm. 450 mm.	No. No. No. No. No. No. No. No. No. No No No No No No No No No No No No No	126 150 205 254 356 378 458 566 618 725 975 975 52 54 82 137 187 246 287 393 439 582				
i) iii) iv) vi) vi) vii) viii) ix) xi) xi) xi) iii) ii	(ForFlanged Joints) 80 mm 100 mm 125 mm 150 mm 200 mm 250 mm 300 mm 350 mm 400 mm 450 mm 500 mm 600 mm Providing Rubber Gasket - EPDM Gaskets for C. I. / D.I. Pipes 80 mm. 100 mm. 150 mm. 200 mm. 300 mm. 350 mm. 400 mm. 350 mm. 400 mm. 350 mm. 400 mm. 350 mm. 400 mm. 450 mm.	No. No. No. No. No. No. No. No. No. No No No No No No No No No No No No No	126 150 205 254 356 378 458 566 618 725 975 975 975 52 54 82 137 187 246 287 393 439				



Sr.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-
No.	-					
1	2 800 mm.	3 No	1961	4		5
xiv) xv)	900 mm.	No	2532			
xvi)	1000 mm	No	2943			
,						
<u>22.</u>	Providing and fixing in position and jointing					
	high performance C. I. Air valves for water					
	combination type (Kinetic air valve along with					
	automatic air valves) double ball, double					
	orifice with stainless steel ball, tamper proof air					
	vents rolling seal mechanism for air release					
	and anti vacuum application designed for 16					
	Kg. Per sq. cm. working pressure and tested				- D.	
	for 20 for kg per sq. cm. pressure. (Rate to					
	include cost of gaskets, bolt, nut and any other				-	20
	material required for jointing and its					
	transportation etc. excluding GST levied by					
	GOI & GOM in all respect.				1	
i)	1. C. I. ARV FLFF PN 1.6 50mm Dia.	No	11453		A 1	
ii)	2. C. I. ARV FLFF PN 1.6 80mm Dia.	No	15892			
iii)	3. C. I. ARV FLFF PN 1.6 100mm Dia.	No	25553			
iv)	4. C. I. ARV FLFF PN 1.6 150mm Dia.	No	42773			
V)	5. C. I. ARV FLFF PN 1.6 200mm Dia.	No	51811	1		
<u>23.</u>	Providing and supplying at site of <u>ductile</u> <u>iron</u>					
	/spheroidal graphite (S.G.) iron D/F double	- (1		
	eccentric resilient seated short body			1		
	butterfly valves with gear box & handwheel,					
	without bypass arrangement. Valves in	1	~			
	accordance with BS EN 593 of PN 10/16	- 11	1			
	rated, with body & disc of ductile iron	1.1.1				
	confirming to EN 1563/IS 1865 Gr.500/7 or	- V.				
	Gr.400/15, Body seat of intergral SG Iron/S.S.					
	AISI 316, seal retaining ring of steel C45/S.S.	P				
	1.4436, Shaft of S.S. 1.4021, Periferial disc					
	seal and "O" rings of WRAS approved EPDM					
	rubber (suitable for drinking water), Internal					
	fasteners of stainless steel A2. Body & disc					
	coated inside & outside with					
	electrostatically applied epoxy powder coated					
	blue colour. (suitable for drinking water.) as per					
	DIN 30677-2 & GSK guidelines with a coating					
	thickness of min. 250 microns. Valves should					
	be 100% tight shutoff. Face to face is per IS					
	13095 short body. Flange drilling as per IS					
	1538 raised face & pressure testing at					
	manufactures works shall be done as per IS					
	13095. including transportation charges					
	excluding GST levied by GOI & GOM in all					
i)	respect etc. complete. 200 mm.	No.	54741	66118		
ii)	250 mm.	No.	68558			
iii)	300 mm.	No.	88005			
iv)	350 mm.	No.	109577	133628		
v)	400 mm.	No.	130604	152495		
,	450 mm.	No.	169228			
vi)			184608			
vi) vii)	500 mm.	No.	1040001			
,	500 mm. 600 mm.	No. No.	268759	378607		
vii)						



Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25
1	2	3		4		5
xi)	900 mm.	No.	651860	772919		
xii)	1000 mm	No.	921916	992695		
24.	Providing and supplying at site of <u>ductile iron</u> / <u>spheroidal graphite (S.G.) iron D/F non- rising spindle resil-ient seated glandless</u> <u>sluice valves</u> with handwheel &without bypass arrangement. Valves in accordance with BS 5163 of PN-10/ 16 rated, with body and bonnet of ductile iron confirming to IS 1865 Gr. 500/7 or Gr.400/15. Wedge fully encapsulated WRAS approved EPDM rubber (approved for drinking water), Wedge nut of brass,shaft of stainless steel 1.4021/1.4104, stem seals min. 3 nos. of NBR, internal fasteners of stainless steel A2. Body& Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677- 2 & GSK guidelines with a coating thickness of min. 250 microns. Valves should be full bore & tight shut-off. Flange drilling as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14846. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16)		5	3	2	×
i)	50 mm	No.	7678			
ii)	80 mm.	No.	9750			
iii)	100 mm.	No.	12079			
iv)	150 mm.	No.	16849			
V)	200 mm.	No.	26741			
vi)	250 mm.	No.	47375			
vii)	300 mm.	No.	63505			
viii)	350 mm.	No.	145345			
ix)	400 mm.	No.	175386			
x)	450 mm.	No.	239648			
xi)	500 mm.	No.	302644			
xii)	600 mm.	No.	437862			

जीवन हो।
(5-m)
Bathra Jeevan Pennin

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)	2024-25
No.						
1	2	3	4		5	
25.	Providing and supplying at site <u>ductile iron /</u> <u>Spheroidal Graphite (S.G.) iron single /</u> <u>Double chamber tamper proof air valve</u> without isolating sluice valve. Valves in accordance with BSEN 1074-4 of PN 10/16 rated, with body and bonnet of ductile iron confirming to EN 1563/IS 1865 Gr. 500/7 or Gr.400/15 floats, float guide, seat ring of stainless steel 1.4436/1.4306, seat ring gasket of WRAS approved EPDM rubber (suitable for drinking water), internal fasteners of stainless steel A2. Body & Bonnet coated inside & outside with electrostatically applied epoxy powder coated blue colour (suitable for drinking water) as per DIN 30677-2 & GSK guidelines with a coating thickness of min. 250 microns. Flange connections as per IS 1538 raised face & pressure testing at manufactures works shall be done as per IS 14845. including transportation charges excluding GST levied by GOI & GOM in all respect etc. complete. (For PN 10 & 16)		2	3	2	×
i)	50 mm	No.	17353	C		
ii)	80 mm.	No.	17807			
iii)	100 mm.	No.	21904			
iv)	150 mm.	No.	30465			
v)	200 mm.	No.	31689			

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SECTION - I (XIII) MECHANICAL JOINTS/FITTINGS

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	XIII. MECHANICAL JOINTS / FITTING		-	-
<u>1.</u>	Supply of C. I. Mechanical Compression Flanged / Socket			
_	Tailpiece (Popularly known as I TM Flanged / Socket Tailpiece)			
	suitable for making flanged connection with the plain barrel of C. I.			
	Spun Pipes (as per - IS - 1536 /2001) and D. I. Pipes (as per IS:			
	8329 / 2000).The Tailpiec to be supplied complete with sealing			
	rubber gasket of S.B.R, C.I. Follower Glands and M.S. Nut Bolts.The			
	whole assembly should be mechanically and hydraulically tested to			
	the provisions as laid down in IS:1538 /1993. The rates are inclusive			
	of cost of material, freight charges, loading, transportation and			
	unloading at departemental store, excluding GST levied by Gol and			6. C
	GoM in all respect, etc. complete as directed.			
				1.26
:)	90 mm dia	NL-	1311	
i)	80 mm dia	No.	1311	
<u>ii)</u>	100 mm dia	No.	1430	2
	125 mm dia	No.		
<u>iv)</u>	150 mm dia	No.	2574	
<u>v)</u>	200 mm dia	No.	3335	
	250 mm dia	No.	5031	
<u>vii)</u>	300 mm dia	No.	5632 7427	
	350 mm dia	No.	9694	
<u>ix)</u>	400 mm dia	No.	11380	
<u>x)</u>	450 mm dia	No.	14299	
<u>xi)</u>	500 mm dia	No.	18336	
	600 mm dia	No.	25009	
	700 mm dia	No.	30390	
	750 mm dia	No.	30390	
<u> </u>	Supply of C. I. Mechanical Compression Collar Coupling			
	suitable for C. I. Spun Pipes (as per - IS - 1536 /2001) and complete			
	with sealing rubber gasket of SBR,.C.I. follower Glands and M.S. nut			
	Bolts.The whole assembly should be mechanically and hydraulically			
	tested to the provisions as laid down in IS:1538 /1993.			
:)		NI-	826	
<u>i)</u>	80 mm dia	No.	886	
<u>ii)</u>	100 mm dia	No.	1181	
<u>III)</u>	125 mm dia	No.	1593	
iv)	150 mm dia	No.	1818	
<u>v)</u>	200 mm dia	No.	2914	
<u>vi)</u>	250 mm dia	No.	3729	
	300 mm dia 350 mm dia	No. No.	4597	+
<u>viii)</u> ix)	400 mm dia	NO.	7154	
	400 mm dia 450 mm dia	NO.	8033	
x) xi)	500 mm dia	NO.	10977	
	600 mm dia	NO.	13692	
	700 mm dia	No.	17889	
$\frac{1}{2}$	750 mm dia	No.	20990	
<u>3.</u>	Supply of C. I. Mechanical Joint Double Socket 900 (11/4")	INU.	20000	
<u>.</u>	Bends as dimensionally described in Table-14 of IS-13382/ 1992			
	complete with sealing rubber gasket of SBR (dimensionally			
	described in IS-12820/1989) with cast iron follower gland and mild			
	steel nut bolts coated or otherwise protected from rusting and			
	suitable for C. I. pipes.			
i)	80 mm dia	No.	2227	
ii)	100 mm dia	No.	2583	
III)	125 mm dia	No.	3017	<u> </u>
iv)	150 mm dia	No.	4744	
v)	200 mm dia	No.	6295	ļ
vi)	250 mm dia	No.	9369	
vii)	300 mm dia	No.	11402	
:::\	350 mm dia	No.	18880	
	400 mm dia	No.	25732	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
x)	450 mm dia	No.	32845	
	500 mm dia	No.	40872	
xii)	600 mm dia	No.	57765	
xiii)	700 mm dia	No.	91180	
xiv)	750 mm dia	No.	103559	
<u>4.</u> i)	Supply of CI Mechanical joint Double Socket 450 (11/8") Bends as dimensionally described in Table -15 of IS - 13382/ 1992 complete with sealing rubber gasket of S.B.R. (dimensionally described in IS-12820/1989) with cast iron follower gland mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 80 mm dia	No.	2068	
ii)	100 mm dia	No.	2302	~
	125 mm dia	No.	2909	
	150 mm dia	No.	3995	1
	200 mm dia	No.	5263	÷
	250 mm dia	No.	7720	
	300 mm dia	No.	9314 15538	
	350 mm dia 400 mm dia	No.	19173	
	400 mm dia 450 mm dia	No. No.	26743	
<u>x)</u> xi)	450 mm dia 500 mm dia	No.	29795	
	600 mm dia	No.	41254	
	700 mm dia	No.	58789	
	750 mm dia	No.	77749	
<u>, </u>	complete with sealing rubber gasket of SBR (dimensionally described in IS-12820/1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.		1005	
)	80 mm dia.	No.	1985	
i)	100 mm dia.	No.	2209	
<u>ii)</u>	125 mm dia.	No.	2653 3751	
<u>/)</u> /)	150 mm dia. 200 mm dia.	No. No.	4703	
	250 mm dia.	No.	7113	
/ii)	300 mm dia.	No.	8585	
	350 mm dia.	No.	13553	
x)	400 mm dia.	No.	17375	
()	450 mm dia.	No.	21980	
á)	500 mm dia.	No.	25616	
di)	600 mm dia.	No.	33940	
	700 mm dia.	No.	51056	
<u>dv)</u> 6.	750 mm dia. <u>Supply of CI Mechanical joint Double Socket 11.250 (1/32")</u> <u>Bends</u> as dimensionally described in Table -17 of IS - 13382/1992	No.	56223	
	complete with sealing rubber gasket of S.B.R.(dimensionally described in IS-12820 /1989) with cast iron follower gland and mild			
	steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 80 mm dia.	No.	1965	
)	100 mm dia.	No.	2158	
) i)	125 mm dia.	No.	2345	
/)	150 mm dia.	No.	3667	
	200 mm dia.	No.	4515	
)		No.	6674	
	250 mm dia.		= =	
ri)	300 mm dia.	No.	7395	
ri) rii)	300 mm dia. 350 mm dia.	No.	11670	
() (i) (ii) (iii) (x) (x)	300 mm dia.			

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
(ii)	600 mm dia.	No.	29813	
kiii)	700 mm dia.	No.	40190	
xiv)	750 mm dia.	No.	44837	
7	Supply of CI Mechanical joint All Socket Tees as dimensionally			
	described in Table -18 of IS - 13382/1992 complete with sealing			
	rubber gasket of S.B.R. (dimensionally described in IS- 12820/1989)			
	with cast iron follower gland and mild steel nut bolts coated or			
	otherwise protected from rusting and suitable for C. I. pipes.			
i)	80x80x80 mm dia	No.	3039	
ii)	100x100x80 mm dia	No.	3267	
iii)	100x100x100 mm dia	No.	3622	
iv)	150x150x80 mm dia	No.	5074	
V)	150x150x100 mm dia	No.	5146	
vi)	150x150x150 mm dia	No.	6382	1 T
vii)	200x200x80 mm dia	No.	6120	
<u>viii)</u>	200x200x100 mm dia	No.	6188	1
<u>ix)</u>	200x200x150 mm dia	No.	7370	
<u>x)</u>	200x200x200 mm dia	No.	8109	
<u>xi)</u>	250x250x80 mm dia	No.	8619	
<u>xii)</u>	250x250x100 mm dia	No.	8809	
	250x250x150 mm dia	No.	10513 11108	
xiv)	250x250x200 mm dia	No.	12459	
xv)	250x250x250 mm dia	No. No.	9451	
xvi)	300x300x80 mm dia	No.	9664	
	<u>300x300x100 mm dia</u> 300x300x150 mm dia	No.	12393	
	300x300x200 mm dia	No.	12803	
XX)	300x300x250 mm dia	No.	13555	
<u>xxi)</u>	300x300x300 mm dia	No.	14960	
<u>8.</u>	Supply of CI Mechanical joint Double Socket with Flanged Tees dimensionally described in Table -19 of IS - 13382/1992 complete with sealing rubber gasket of S.B.R.(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or galvanised coated or otherwise protected from rusting and suitable for C. I. pipes.			
	20v20v20 mm dia	No.	2976	
	80x80x80 mm dia 100x100x80 mm dia	No.	3266	
	100x100x100 mm dia	No.	3455	
	150x150x80 mm dia	No.	4928	
	150x150x100 mm dia	No.	5050	
	150x150x150 mm dia	No.	6015	
	200x200x80 mm dia	No.	5784	
	200x200x100 mm dia	No.	6170	
1	200x200x150 mm dia	No.	7106	
	200x200x200 mm dia	No.	8147	
	250x250x80 mm dia	No.	8169	
	250x250x100 mm dia	No.	8597	
	250x250x150 mm dia	No.	10200	
1	250x250x200 mm dia	No.	10673	
	250x250x250 mm dia	No.	11052	
	300x300x80 mm dia	No.	9590	
	300x300x100 mm dia	No.	9778	
	300x300x150 mm dia	No.	11289	
	300x300x200 mm dia	No.	11385	
	300x300x250 mm dia	No.	12564	
	300x300x300 mm dia	No.	15398	
	350x350x80 mm dia	No.	13413	
	350x350x100 mm dia	No.	14265	
	350x350x150 mm dia	No.	15348	
	350x350x200 mm dia	No.	17885	
	350x350x300 mm dia	No.	18323	





No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	350x350x350 mm dia	No.	20968	
	400x400x80 mm dia	No.	17534	
	400x400x100 mm dia	No.	18587	
	400x400x150 mm dia	No.	20694	
	400x400x200 mm dia	No.	21111	
	400x400x300 mm dia	No.	25442	
	400x400x400 mm dia	No.	29130	
	450x450x80 mm dia	No.	20913 21969	
	450x450x100 mm dia	No. No.	25764	
	450x450x200 mm dia 450x450x300 mm dia	No.	32511	
	450x450x350 mm dia	No.	34304	
	450x450x450 mm dia	No.	37261	
	500x500x100 mm dia	No.	23529	
	500x500x250 mm dia	No.	32175	
	500x500x230 mm dia	No.	33333	1
	500x500x400 mm dia	No.	40191	A.
	500x500x500 mm dia	No.	48523	-
	600x600x100 mm dia	No.	33626	
	600x600x300 mm dia	No.	46175	
	600x600x400 mm dia	No.	52605	
	600x600x500 mm dia	No.	56927	
	600x600x600 mm dia	No.	69896	
	700x700x100 mm dia	No.	44565	
	700x700x200 mm dia	No.	51630	
	700x700x350 mm dia	No.	62385	
	700x700x400 mm dia	No.	67024	
	750x750x150 mm dia	No.	53153	
	750x750x250 mm dia	No.	60958	
	750x750x750 mm dia	No.	116950	
9.	<u>Supply of CI Mechaincal joint Double Socket Reducers</u> as described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989)			
9.	described in Table -21 of IS - 13382/1992 complete with sealing			
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.	No	2088	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.	No.		
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.	No. No. No.	2088 3286 3479	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.	No.	3286	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes.	No. No.	3286 3479	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia	No. No. No.	3286 3479 4005	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia	No. No. No.	3286 3479 4005 4380 5837 5983	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x150 mm dia	No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x150 mm dia	No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x150 mm dia 250x200 mm dia 300x200 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x150 mm dia 250x200 mm dia 300x200 mm dia 300x200 mm dia 350x200 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. <u>100x80 mm dia</u> <u>150x100 mm dia</u> <u>200x100 mm dia</u> <u>200x150 mm dia</u> <u>250x150 mm dia</u> <u>300x150 mm dia</u> <u>300x200 mm dia</u> <u>300x250 mm dia</u> <u>350x200 mm dia</u> <u>350x200 mm dia</u>	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. <u>100x80 mm dia</u> <u>150x100 mm dia</u> <u>200x100 mm dia</u> <u>200x150 mm dia</u> <u>250x150 mm dia</u> <u>250x200 mm dia</u> <u>300x250 mm dia</u> <u>350x200 mm dia</u> <u>350x200 mm dia</u> <u>350x250 mm dia</u> <u>350x250 mm dia</u>	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x150 mm dia 300x250 mm dia 350x200 mm dia 350x250 mm dia 350x250 mm dia 400x250 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x150 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 350x200 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x2150 mm dia 300x200 mm dia 350x200 mm dia 350x200 mm dia 350x250 mm dia 400x250 mm dia 400x300 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x2150 mm dia 300x200 mm dia 350x200 mm dia 350x250 mm dia 350x250 mm dia 400x250 mm dia 400x350 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x200 mm dia 300x200 mm dia 350x200 mm dia 350x200 mm dia 350x200 mm dia 400x350 mm dia 400x350 mm dia 400x350 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17711	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 350x200 mm dia 400x350 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17711 17489 21304	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia 450x350 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17711 177489 21304 20979	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia 450x350 mm dia 450x350 mm dia 500x400 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17721 17711 177489 21304 20979 20448	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 500x350 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17721 17711 177489 21304 20979 20448 30933	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. <u>100x80 mm dia</u> 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia 400x350 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia 500x400 mm dia 500x400 mm dia 500x400 mm dia 500x400 mm dia 600x450 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17721 17711 177489 21304 20979 20448 30933 30106	
9.	described in Table -21 of IS - 13382/1992 complete with sealing rubber gasket of SBR(dimensionally described in IS-12820/ 1989) with cast iron follower gland and mild steel nut bolts coated or otherwise protected from rusting and suitable for C. I. pipes. 100x80 mm dia 150x80 mm dia 150x100 mm dia 200x100 mm dia 200x150 mm dia 250x200 mm dia 300x250 mm dia 300x250 mm dia 350x200 mm dia 350x200 mm dia 400x250 mm dia 400x350 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia 500x350 mm dia 450x300 mm dia 450x300 mm dia 450x300 mm dia	No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No. No.	3286 3479 4005 4380 5837 5983 7360 7372 7497 10595 10629 10503 16002 14177 14271 17721 17721 17721 17711 177489 21304 20979 20448 30933	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	750x600 mm dia	No.	45769	
	750x700 mm dia	No.	42306	
	800x450 mm dia	No.	62966	
	800x700 mm dia	No.	54053	



SECTION - I (XIV) M.S. PIPES

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	XIV. M. S. PIPES			
1.	Manufacturing, providing and supplying spirally welded			
	/ <u>ERW/</u> <u>SAW</u> / <u>fabricated</u> <u>M.</u> <u>S. pipes</u> (Commercial Quality)			
	including procurements of plates, gas cutting to requried size			
	rolling, tack welding assembling in suitable lengths to form			
	pipes, welding on automatic welding machine and forming 'V'			
	edge on both ends of pipes including railway freight,			
	insurance, unloading from railway wagon, loading into truck,			
	transport to stores, unloading, stacking excluding GST levied			
	by GOI & GOM in all respect, etc, complete as per IS - 3589			
	and IS-5504 as applicable as per specifications (No negative			
	tolerance in thickness is permissible).			Page 1
<u>a)</u>	Dia of Pipe : 219.10 mm (O. D.)			
	Thickness of pipe :		()	
i)	4.8 mm	RMT	2386	1
ii)	5.6 mm	RMT	2773	
iii)	6.4 mm	RMT	3158	
iv)	7.0 mm	RMT	3444	
<u>v)</u>	7.9 mm	RMT	3870	
vi)	8.2 mm	RMT	4012 4246	
<u>vii)</u> viii)	8.7 mm 9.5 mm	RMT RMT	4246	
<u>b)</u>	Dia of Pipe : 273.10 mm (O. D.)	RIVIT	4019	
<u>0</u>]	Thickness of pipe :			
i)	4.8 mm	RMT	2987	
	5.6 mm	RMT	3475	
iii)	6.4 mm	RMT	3959	
iv)	7.2 mm	RMT	4441	
V)	7.8 mm	RMT	4800	
vi)	8.7 mm.	RMT	5336	
vii)	9.3 mm.	RMT	5691	
C)	Dia of Pipe : 323.90 mm (O. D.)			
:)	Thickness of pipe :	DMT	4135	
<u>i)</u>	5.6 mm 6.4 mm	RMT	4714	
ii) iii)	7.1 mm	RMT RMT	5218	
iv)	7.9 mm	RMT	5791	
v)	8.4 mm	RMT	6148	
vi)	8.7 mm.	RMT	6361	
vii)	9.5 mm.	RMT	6928	
d)	Dia of Pipe : 355.7 mm (O. D.)			
	Thickness of pipe :			
<u>i)</u>	5.6 mm.	RMT	4547	
ii)	6.4 mm.	RMT	5184	
iii)	7.1 mm.	RMT RMT	5740 6372	
iv) v)	7.9 mm. 8.7 mm.	RMT	7001	
v) vi)	9.5 mm.	RMT	7627	
e)	Dia of Pipe : 406.00 mm (O. D.)		1.521	
-,	Thickness of pipe :			
i)	5.6 mm.	RMT	5201	
ii)	6.4 mm.	RMT	5932	
iii)	7.1 mm.	RMT	6570	
iv)	7.9 mm.	RMT	7295	
v)	8.7 mm.	RMT	8018	
vi)	9.5 mm.	RMT	8738	
vii)	10.00 mm.	RMT	9186	
f)	<u>Dia of Pipe : 457.00 mm (O. D.)</u> Thickness of pipe :			
i) ii)	5.6 mm.	RMT	5864	
. <u>, .</u> ,	6.4 mm.	RMT	6690	
iii)	7.1 mm.	RMT	7410	
	7.9 mm.	RMT	8230	1





Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs 2024-25
1	2	3	4	5
V)	8.7 mm.	RMT	9047	
vi)	9.5 mm.	RMT	9861	
vii)	10.00 mm.	RMT	10369	
g)	Dia of Pipe : 508.00 mm (O. D.)			
0,	Thickness of pipe :			
i)	5.6 mm.	RMT	6526	
ii)	6.4 mm.	RMT	7447	
iii)	7.1 mm.	RMT	8250	
iv)	7.9 mm.	RMT	9164	
V)	8.7 mm.	RMT	10076	
vi)	9.5 mm.	RMT	10985	
vii)	10.00 mm.	RMT	11552	0.0
h)	Dia of Pipe : 559.00 mm (O. D.)			1 m
	Thickness of pipe :			
i)	5.6 mm.	RMT	7189	
ii)	6.4 mm.	RMT	8204	
iii)	7.1 mm.	RMT	9090	1.00
iv)	7.9 mm.	RMT	10099	all a
v)	8.7 mm.	RMT	11106	-
vi)	9.5 mm.	RMT	12109	
vii)	10.00 mm.	RMT	12735	
i)	Dia of Pipe : 610.00 mm (O. D.)	\frown	~	
	Thickness of pipe :		7054	
<u>i)</u>	5.6 mm	RMT	7851	
<u>ii)</u>	6.4 mm.	RMT	8961 9930	
<u>iii)</u>	7.1 mm.	RMT		
iv)	7.9 mm.	RMT	11034	
<u>v)</u>	8.7 mm.	RMT	12135 13233	
vi)	9.5 mm.	RMT RMT	13918	
vii)	10.00 mm. 12.00 mm	RMT	16646	+
viii)	Dia of Pipe : 660.00 mm (O. D.)		10040	
j)	Thickness of pipe :			
i)	5.6 mm	RMT	8501	+
- 1) ii)	6.4 mm.	RMT	9703	
 iii)	7.1 mm.	RMT	10753	
 iv)	7.9 mm.	RMT	11950	1
V)	8.7 mm.	RMT	13144	1
 	9.5 mm.	RMT	14335	1
vii)	10.00 mm.	RMT	15078	1
k)	Dia of Pipe : 711.00 mm (O. D.)			1
,	Thickness of pipe :			
i)	5.6 mm.	RMT	9163	1
ii)	6.4 mm.	RMT	10460	
iii)	7.1 mm.	RMT	11593	
iv)	7.9 mm.	RMT	12885	
v)	8.7 mm.	RMT	14173	
vi)	9.5 mm.	RMT	15459	1
vii)	10.00 mm.	RMT	16261	
viii)	12.00 mm	RMT	19457	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
I)	Dia of Pipe : 762.00 mm (O. D.)			
	Thickness of pipe :			
	5.6 mm.	RMT	9826	
ii) (6.4 mm.	RMT	11218	
iii)	7.1 mm.	RMT	12433	
	7.9 mm.	RMT	13819	
v) (8.7 mm.	RMT	15202	
vi)	9.5 mm.	RMT	16583	
vii)	10.00 mm.	RMT	17444	
	<u>Dia of Pipe : 813.00 mm (O. D.)</u> Thickness of pipe :			
i) (5.6 mm.	RMT	10488	
	6.4 mm.	RMT	11975	
	7.1 mm.	RMT	13273	
	7.9 mm.	RMT	14754	
	8.7 mm.	RMT	16232	1.0
	9.5 mm.	RMT	17707	- 46
	10.00 mm.	RMT	18627	
	12.00 mm	RMT	22297	
n)	Dia of Pipe : 864.00 mm (O. D.)		1	
	Thickness of pipe :			
i) :	5.6 mm.	RMT	11151	
	6.4 mm.	RMT	12732	
iii)	7.1 mm.	RMT	14113	
	7.9 mm.	RMT	15688	
v) (8.7 mm.	RMT	17261	
vi)	9.5 mm.	RMT	18830	
vii)	10.00 mm.	RMT	19810	
o)	Dia of Pipe : 914.00 mm (O. D.)			
	Thickness of pipe :			
	5.6 mm.	RMT	11800	
ii) (6.4 mm.	RMT	13474	
iii) '	7.1 mm.	RMT	14936	
iv)	7.9 mm.	RMT	16605	
	8.7 mm.	RMT	18270	
	9.5 mm.	RMT	19932	
	10.00 mm.	RMT	20970	
	Dia of Pipe : 965.00 mm (O. D.)			
	Thickness of pipe :		40.400	
	5.6 mm.	RMT	12463	
	6.4 mm.	RMT	14231	
	7.1 mm.	RMT	15776	
	7.9 mm.	RMT	17539	
	8.7 mm.	RMT	19299	
	9.5 mm.	RMT	21056	
	10.00 mm.	RMT	22153	
	<u>Dia of Pipe : 1016.00 mm (O. D.)</u>			
	Thickness of pipe :		13125	
	5.6 mm.	RMT	13125	
	6.4 mm.	RMT		
/	7.1 mm.	RMT	16616 18474	
	7.9 mm.	RMT		
	8.7 mm.	RMT	20328 22180	
	9.5 mm.	RMT		
	10.00 mm.	RMT	23336	
viii)	12.00 mm	RMT	27947	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
r)	Dia of Pipe : 1067.00 mm (O. D.)			
,	Thickness of pipe :			
i) ii)	5.6 mm.	RMT	13788	
	6.4 mm.	RMT	15745	
iii)	7.1 mm.	RMT	17456	
iv)	7.9 mm.	RMT	19408	
V)	8.7 mm.	RMT	21358	
	9.5 mm.	RMT	23304	
vii)	10.00 mm.	RMT	24519	
s)	<u>Dia of Pipe : 1118.00 mm (O. D.)</u>			
:)	Thickness of pipe :		14450	
<u>i)</u>	5.6 mm.	RMT	14450	100 C
<u>ii)</u>	6.4 mm.	RMT	18296	
iii)	7.1 mm.	RMT	20343	X
_iv) v)	7.9 mm. 8.7 mm.	RMT RMT	20343	V .
v) vi)	9.5 mm.	RMT	24428	
vi) vii)	10.00 mm.	RMT	25702	11
t)	Dia of Pipe : 1168.00 mm (O. D.)		20102	1
4	Thickness of pipe :	1		
i)	5.6 mm.	RMT	15100	
ii)	6.4 mm.	RMT	17245	
iii)	7.1 mm.	RMT	19120	
iv)	7.9 mm.	RMT	21259	
v)	8.7 mm.	RMT	23396	
	9.5 mm.	RMT	25530	
vii)	10.00 mm.	RMT	26862	
u)	Dia of Pipe : 1219.00 mm (O. D.)	1		
	Thickness of pipe :			
i)	6.4 mm.	RMT	18002	
ii)	7.1 mm.	RMT	19959	
iii)	7.9 mm.	RMT	22194	
iv)	8.7 mm.	RMT	24425	
V)	9.5 mm.	RMT	26653	
vi)	10.00 mm.	RMT	28045	
vii)	12.00 mm.	RMT	33598	
V)	Dia of Pipe : 1296.00 mm (O. D.)			
	Thickness of pipe :			
i)	9.5 mm.	RMT	28350	
ii)	9.98 mm.	RMT	29772	
iii)	10.00 mm.	RMT	29831	
w)	Dia of Pipe : 1321.00 mm (O. D.)			
	Thickness of pipe :		40540	
i)	6.4 mm.	RMT	19516	+
<u>ii)</u>	7.1 mm.	RMT	21639	
iii)	7.9 mm.	RMT	24063 26484	
iv)	8.7 mm.		26484	
V)	9.5 mm.	RMT	30411	
vi)	10.00 mm.	RMT	50411	+
X)	<u>Dia of Pipe : 1422.00 mm (O. D.)</u> Thickness of pipe :			
i)	7.1 mm.	RMT	23303	+
<u>)</u> ii)	7.1 mm. 7.9 mm.	RMT	25914	+
<u>-11)</u> iii)	8.7 mm.	RMT	28522	+
iv)	9.5 mm.	RMT	31127	1
17)	10.00 mm.	RMT	32754	+
V)	110 00 mm			



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
y)	Dia of Pipe : 1473.00 mm (O. D.)			
•	Thickness of pipe :			
i)	9.5 mm.	RMT	32251	
	9.98 mm.	RMT	33869	
Z)	Dia of Pipe : 1524.00 mm (O. D.)			
	Thickness of pipe :			
	7.1 mm.	RMT	24983	
	7.9 mm.	RMT	27783	
	8.7 mm.	RMT	30580	
	9.5 mm.	RMT	33375	
	10.00 mm.	RMT	35120	
	11.90 mm.	RMT	41740	6. ·
	12.00 mm.	RMT	42088	
	<u> Dia of Pipe : 1550.00 mm (O. D.)</u>			1 36
	Thickness of pipe :			
	10.00 mm.	RMT	35723	
	11.00 mm.	RMT	39270	1
	<u>Dia of Pipe : 1576.00 mm (O. D.)</u>			
	Thickness of pipe :		0.450.4	-
	9.5 mm.	RMT	34521	
	10.00 mm.	RMT	36326	
	<u>Dia of Pipe : 1626.00 mm (O. D.)</u>	\sim	~	
	Thickness of pipe :		00000	
	7.1 mm.	RMT	26663	
	7.9 mm.	RMT	29652	
	8.7 mm.	RMT	32639	
	9.5 mm.	RMT	35622	
	10.00 mm.	RMT	37486	
	12.00 mm.	RMT	44927	
	Dia of Pipe : 1650.00 mm (O. D.)			
	Thickness of pipe :	DUT	30092	
	7.9 mm.	RMT	33123	
	8.7 mm.	RMT RMT	36151	
	9.5 mm.	RMT	38042	
	10.00 mm.		45595	
	12.00 mm. Dia of Pipe : 1700.00 mm (O. D.)	RMT	40000	
	Thickness of pipe :			
	7.9 mm.	RMT	31008	
	8.7 mm.	RMT	34132	
	9.5 mm.	RMT	37253	1
	10.00 mm.	RMT	39202	1
	12.00 mm.	RMT	46987	1
af)	Dia of Pipe : 1750.00 mm (O. D.)			1
,	Thickness of pipe :			
i)	7.9 mm.	RMT	31925	1
	8.7 mm.	RMT	35141	
	9.5 mm.	RMT	38355	
	10.00 mm.	RMT	40362	
	12.00 mm.	RMT	48379	
	Dia of Pipe : 1800.00 mm (O. D.)	1		
	Thickness of pipe :			
	7.9 mm.	RMT	32841	
	8.7 mm.	RMT	36150	1
	9.5 mm.	RMT	39457	
iv)	10.00 mm.	RMT	41522	
v)	12.00 mm.	RMT	49771	1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
ah)	Dia of Pipe : 1850.00 mm (O. D.)			
-	Thickness of pipe :			
	7.9 mm.	RMT	33757	
ii)	8.7 mm.	RMT	37159	
iii)	9.5 mm.	RMT	40559	
iv)	10.00 mm.	RMT	42682	
	12.00 mm.	RMT	51162	
	<u>Dia of Pipe : 1900.00 mm (O. D.)</u> Thickness of pipe :			
	7.9 mm.	RMT	34673	
	8.7 mm.	RMT	38168	
	9.5 mm.	RMT	41661	
	10.00 mm.	RMT	43842	10.
	12.00 mm.	RMT	52554	
	Dia of Pipe : 1950.00 mm (O. D.)			
	Thickness of pipe :			
i) ii)	7.9 mm.	RMT	35590	- 26
	8.7 mm.	RMT	39177	11
	9.5 mm.	RMT	42762	
	10.00 mm.	RMT	45001	1
	12.00 mm.	RMT	53946	
ak)	Dia of Pipe : 2000.00 mm (O. D.)			
	Thickness of pipe :	. 1		
i) ii)	7.9 mm.	RMT	36506	
	8.7 mm.	RMT	40187	
iii)	9.5 mm.	RMT	43864	
iv)	10.00 mm.	RMT	46161	
	12.00 mm.	RMT	55338	
al)	<u>Dia of Pipe : 2050.00 mm (O. D.)</u>			
	Thickness of pipe :			
i) ii)	7.9 mm.	RMT	37422	
	8.7 mm.	RMT	41196	
	9.5 mm.	RMT	44966	
	10.00 mm.	RMT	47321	
	12.00 mm.	RMT	56730	
	<u> Dia of Pipe : 2100.00 mm (O. D.)</u>			
	Thickness of pipe :			ļ
	7.9 mm.	RMT	38338	
	8.7 mm.	RMT	42205	ļ
	9.5 mm.	RMT	46068	ļ
	10.00 mm.	RMT	48481	
- /	12.00 mm.	RMT	58121	
	Dia of Pipe : 2150.00 mm (O. D.)			
	Thickness of pipe :		00055	
	7.9 mm.	RMT	39255	
	8.7 mm.	RMT	43214	
	9.5 mm.	RMT	47170	
	10.00 mm.	RMT	49641	
	12.00 mm.	RMT	59513	
ao)	Dia of Pipe : 2200.00 mm (O. D.)			
	Thickness of pipe :		40474	
	7.9 mm.	RMT	40171	
	8.7 mm.	RMT	44223	
	9.5 mm.	RMT	48272	
	10.00 mm.	RMT	50801	
v)	12.00 mm.	RMT	60905	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
ap)	Dia of Pipe : 2250.00 mm (O. D.)			
• /	Thickness of pipe :			
i)	7.9 mm.	RMT	41087	
ii)	8.7 mm.	RMT	45232	
iii)	9.5 mm.	RMT	49373	
iv)	10.00 mm.	RMT	51960	
V)	12.00 mm.	RMT	62297	
aq)	Dia of Pipe : 2300.00 mm (O. D.)			
	Thickness of pipe :			
i)	7.9 mm.	RMT	42003	
ii)	8.7 mm.	RMT	46241	
iii)	9.5 mm.	RMT	50475	6
iv)	10.00 mm.	RMT	53120	
V)	12.00 mm.	RMT	63689	
ar)	<u>Dia of Pipe : 2350.00 mm (O. D.)</u>			
	Thickness of pipe :		40555	
<u>i)</u>	7.9 mm.	RMT	42920	1
ii)	8.7 mm.	RMT	47250	
iii)	9.5 mm.	RMT	51577	
iv)	10.00 mm.	RMT	54280	
<u>v)</u>	12.00 mm.	RMT	65080	
<u>as)</u>	Dia of Pipe : 2400.00 mm (O. D.)	\frown	~	
	Thickness of pipe :	DUT	40000	
i)	7.9 mm.	RMT	43836	
ii)	8.7 mm.	RMT	48259 52679	
iii)	9.5 mm.	RMT		
iv)	10.00 mm.	RMT	55440 66472	
<u>v)</u>	12.00 mm.	RMT	00472	
at)	Dia of Pipe : 2450.00 mm (O. D.)			
:\	Thickness of pipe :	DMT	44752	
<u>i)</u>	7.9 mm. 8.7 mm.	RMT RMT	49268	
ii) 			53781	
iii)	9.5 mm. 10.00 mm.	RMT RMT	56600	
iv)	12.00 mm.		67864	
<u>v)</u> au)	Dia of Pipe : 2500.00 mm (O. D.)	RMT	07004	
au)	Thickness of pipe :			
;)	7.9 mm.	RMT	45669	
<u>i)</u> ii)	8.7 mm.	RMT	50277	1
<u>ii)</u> iii)	9.5 mm.	RMT	54883	
iv)	10.00 mm.	RMT	57760	
<u>v)</u>	12.00 mm.	RMT	69256	
	16.00 mm.	RMT	92193	
<u>2.</u>	Manufacturing, providing and supplying spirally welded		02100	
2 .	<u>/ ERW/ SAW / fabricated M. S. pipes</u> (Commercial Quality)			
	including procurements of plates, gas cutting to required size			
	rolling, tack welding assembling in suitable lengths to form			
	pipes, welding on automatic welding machine and forming 'V'			
	edge on both ends of pipes including railway freight,			
	insurance, unloading from railway wagon, loading into truck,			
			1	1
	transport to stores, unloading, stacking, excluding GST levied			
2	by GOI & GOM in all respect etc. complete as per IS - 3589			
-	by GOI & GOM in all respect etc. complete as per IS - 3589 and IS-5504 as applicable as per specifications (No negative			
-	by GOI & GOM in all respect etc. complete as per IS - 3589			



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
<u>a)</u>	Dia of Pipe : 200.00 mm (I. D.)			
	Thickness of pipe :			
	i) 5.00 mm.	RMT	2378	
	ii) 6.00 mm.	RMT	2867	
	iii) 7.00 mm.	RMT	3361	
	iv) 8.00 mm.	RMT	3860	
	v) 9.00 mm.	RMT	4363	
	vi) 10.00mm.	RMT	4871	
<u>b)</u>	Dia of Pipe : 250.00 mm (I. D.)			
	Thickness of pipe :			
i)	5.00 mm.	RMT	2958	
ii)	6.00 mm.	RMT	3563	6. ·
iii)	7.00 mm.	RMT	4173	
iv)	8.00 mm.	RMT	4788	
V)	9.00 mm.	RMT	5407	
vi)	10.00mm.	RMT	6031	
<u>c)</u>	Dia of Pipe : 300.00 mm (I. D.)			-
	Thickness of pipe :		0.507	11
<u>i)</u>	5.00 mm.	RMT	3537	r
ii)	6.00 mm.	RMT	4259	
iii)	7.00 mm.	RMT	4985	
iv)	8.00 mm.	RMT	5716	
<u>v)</u>	9.00 mm.	RMT	6451	
vi)	10.00mm.	RMT	7191	
<u>d)</u>	Dia of Pipe : 350.00 mm (I. D.)		· · · · · · · · · · · · · · · · · · ·	
	Thickness of pipe :	EN (T	4447	
<u>i)</u>	5.00 mm.	RMT	4117 4955	
<u>ii)</u>	6.00 mm.	RMT	5797	
iii)	7.00 mm.	RMT	6644	
iv)	8.00 mm.	RMT	7495	
v) vi)	9.00 mm. 10.00mm.	RMT RMT	8351	
	Dia of Pipe : 400.00 mm (I. D.)		0001	
<u>e)</u>	Thickness of pipe :			
i)	5.00 mm.	RMT	4697	
<u>i)</u> ii)	6.00 mm.	RMT	5651	
iii)	7.00 mm.	RMT	6609	
iv)	8.00 mm.	RMT	7571	
v)	9.00 mm.	RMT	8539	
vi)	10.00mm.	RMT	9511	
<u>f</u>)	Dia of Pipe : 450.00 mm (I. D.)			
<u>п</u>	Thickness of pipe :			
i)	5.00 mm.	RMT	5277	
	6.00 mm.	RMT	6347	1
iii)	7.00 mm.	RMT	7421	1
iv)	8.00 mm.	RMT	8499	
V)	9.00 mm.	RMT	9583	
vi)	10.00mm.	RMT	10670	1
g)	Dia of Pipe : 500.00 mm (I. D.)			1
3/	Thickness of pipe :			
i)	5.00 mm.	RMT	5857	1
ii)	6.00 mm.	RMT	7042	1
iii)	7.00 mm.	RMT	8232	1
iv)	8.00 mm.	RMT	9427	
v)	9.00 mm.	RMT	10626	
v)	10.00mm.	RMT	11830	+



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
h)	Dia of Pipe : 550.00 mm (I. D.)			
	Thickness of pipe :			
i)	5.00 mm.	RMT	6437	
ii)	6.00 mm.	RMT	7738	
iii)	7.00 mm.	RMT	9044	
iv)	8.00 mm.	RMT	10355	
V)	9.00 mm.	RMT	11670	
vi)	10.00mm.	RMT	12990	
i)	Dia of Pipe : 600.00 mm (I. D.)			
	Thickness of pipe :	D 1/ T	7047	
<u>i)</u>	5.00 mm.	RMT	7017	
ii)	6.00 mm.	RMT	8434 9856	<u></u>
iii)	7.00 mm.	RMT	11283	
iv)	8.00 mm.	RMT	12714	1.26
<u>v)</u>	9.00 mm.	RMT RMT	14150	
vi)	10.00mm. 12.00mm.	RMT	17036	
<u>vii)</u> i)	Dia of Pipe : 650.00 mm (I. D.)	RIVII	17030	di la constante da constante da constante da constante da constante da constante da constante da constante da c
<u>)</u>	Thickness of pipe :			
i)	5.00 mm.	RMT	7597	
<u>i)</u> ii)	6.00 mm.	RMT	9130	
 iii)	7.00 mm.	RMT	10668	1
iv)	8.00 mm.	RMT	12211	
v)	9.00 mm.	RMT	13758	1
vi)	10.00mm.	RMT	15310	
vii)	12.00mm.	RMT	18427	
k)	Dia of Pipe : 700.00 mm (I. D.)			
,	Thickness of pipe :	1		
i)	5.00 mm.	RMT	8177	
ii)	6.00 mm.	RMT	9826	
iii)	7.00 mm.	RMT	11480	
iv)	8.00 mm.	RMT	13139	
V)	9.00 mm.	RMT	14802	
vi)	10.00mm.	RMT	16470	
vii)	12.00mm.	RMT	19819	
I)	<u>Dia of Pipe : 750.00 mm (I. D.)</u>			
	Thickness of pipe :			
i)	5.00 mm.	RMT	8757	
ii)	6.00 mm.	RMT	10522	
iii)	7.00 mm.	RMT	12292	
iv)	8.00 mm.	RMT	14066	
v)	9.00 mm.	RMT	15846	
vi)	10.00mm.	RMT	17629	
<u>vii)</u>	12.00mm.	RMT	21211	
m)	Dia of Pipe : 800.00 mm (I. D.)			
	Thickness of pipe :	D1 17	0007	
<u>i)</u>	5.00 mm.	RMT	9337	
ii)	6.00 mm.	RMT	11218 13104	
iii)	7.00 mm.	RMT	13104	
iv)	8.00 mm.	RMT		
V)	9.00 mm.	RMT	16889 18789	
vi)	10.00mm.	RMT	22603	
vii)	12.00mm.	RMT	22003	
<u>n)</u>	Dia of Pipe : 850.00 mm (I. D.) Thickness of pipe :			
;)	5.00 mm.	RMT	9917	
<u>i)</u> ii)	6.00 mm.	RMT	11914	
	7.00 mm.	RMT	13916	1
iii)		RMT	15916	
iv)	8.00 mm. 9.00 mm.	RMT	17933	
v) vi)	10.00mm.	RMT	17933	1
vi) vii)	12.00mm.	RMT	23995	
0)	Dia of Pipe : 900.00 mm (I. D.)		20000	
0)	Thickness of pipe :			
		RMT	10496	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
ii)	6.00 mm.	RMT	12610	
iii)	7.00 mm.	RMT	14728	
iv)	8.00 mm.	RMT	16850	
v)	9.00 mm.	RMT	18977	
vi)	10.00mm.	RMT	21109	
vii)	12.00mm.	RMT	25386	
p)	Dia of Pipe : 950.00 mm (I. D.)			
P/	Thickness of pipe :			
i)	5.00 mm.	RMT	11076	
ii)	6.00 mm.	RMT	13306	
iii)	7.00 mm.	RMT	15539	
iv)	8.00 mm.	RMT	17778	
v)	9.00 mm.	RMT	20021	
vi)	10.00mm.	RMT	22269	
vii)	12.00mm.	RMT	26778	
q)	Dia of Pipe : 1000.00 mm (I. D.)			V 7
Ч/	Thickness of pipe :			1.1
i)	5.00 mm.	RMT	11656	11
ii)	6.00 mm.	RMT	14001	1
iii)	7.00 mm.	RMT	16351	
iv)	8.00 mm.	RMT	18706	
v)	9.00 mm.	RMT	21065	
vi)	10.00mm.	RMT	23429	
vii)	12.00mm.	RMT	28170	
r)	Dia of Pipe : 1050.00 mm (I. D.)	1 (1/1		
.,	Thickness of pipe :			
i)	5.00 mm.	RMT	12236	
ii)	6.00 mm.	RMT	14697	
iii)	7.00 mm.	RMT	17163	
iv)	8.00 mm.	RMT	19634	
v)	9.00 mm.	RMT	22109	
vi)	10.00mm.	RMT	24588	
vii)	12.00 mm.	RMT	29562	
s)	Dia of Pipe : 1100.00 mm (I. D.)			
•/	Thickness of pipe :			
i)	5.00 mm.	RMT	12816	
ii)	6.00 mm.	RMT	15393	
iii)	7.00 mm.	RMT	17975	
iv)	8.00 mm.	RMT	20561	
v)	9.00 mm.	RMT	23153	
vi)	10.00mm.	RMT	25748	
vii)	12.00 mm.	RMT	30954	
t)	Dia of Pipe : 1150.00 mm (I. D.)			
	Thickness of pipe :			
i)	5.00 mm.	RMT	13396	
ii)	6.00 mm.	RMT	16089	
iii)	7.00 mm.	RMT	18787	
iv)	8.00 mm.	RMT	21489	
v)	9.00 mm.	RMT	24196	
	10.00mm.	RMT	26908	
vi)				1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
u)	Dia of Pipe : 1200.00 mm (I. D.)			
	Thickness of pipe :			
i)	5.00 mm.	RMT	13976	
ii)	6.00 mm.	RMT	16785	
iii)	7.00 mm.	RMT	19599	
iv)	8.00 mm.	RMT	22417	
<u>v)</u>	9.00 mm.	RMT	25240 28068	
vi)	10.00mm. 12.00 mm.	RMT	33737	
vii)	Dia of Pipe :1250.00 mm (I. D.)	RMT	33737	
V)	Thickness of pipe :			
i)	6.00 mm.	RMT	17481	
 ii)	7.00 mm.	RMT	20411	1 m
iii)	8.00 mm.	RMT	23345	
iv)	9.00 mm.	RMT	26284	
v)	10.00mm.	RMT	29228	V 7
vi)	12.00 mm.	RMT	35129	
w)	Dia of Pipe :1300.00 mm (I. D.)			III .
	Thickness of pipe :			r
i)	6.00 mm.	RMT	18177	
ii)	7.00 mm.	RMT	21223	
iii)	8.00 mm.	RMT	24273	
iv)	9.00 mm.	RMT	27328	
V)	10.00mm.	RMT	30388	
vi)	12.00 mm.	RMT	36521	
X)	Dia of Pipe :1350.00 mm (I. D.)		-	
	Thickness of pipe :			
i)	7.00 mm.	RMT	22034	
ii)	8.00 mm.	RMT	25201	
<u>iii)</u>	9.00 mm.	RMT	28372	
iv)	10.00mm.	RMT	31547 37913	
<u>v)</u>	12.00 mm.	RMT	3/913	
y)	Dia of Pipe :1400.00 mm (I. D.) Thickness of pipe :			
;)	7.00 mm.	RMT	22846	
<u>i)</u> ii)	8.00 mm.	RMT	26129	
 iii)	9.00 mm.	RMT	29416	
iv)	10.00mm.	RMT	32707	
v)	12.00 mm.	RMT	39304	
z)	Dia of Pipe :1450.00 mm (I. D.)	T (IVI I		
/	Thickness of pipe :			
i)	7.00 mm.	RMT	23658	
ii)	8.00 mm.	RMT	27057	
iii)	9.00 mm.	RMT	30459	
iv)	10.00mm.	RMT	33867	
v)	12.00 mm.	RMT	40696	
aa)	Dia of Pipe :1500.00 mm (I. D.)			
10	Thickness of pipe :			
i)	7.00 mm.	RMT	24470	
ii)	8.00 mm.	RMT	27984	
iii)	9.00 mm.	RMT	31503	
iv)	10.00mm.	RMT	35027	
v)	12.00 mm.	RMT	42088	
ab)	Dia of Pipe :1550.00 mm (I. D.)			
:>	Thickness of pipe :		25282	
i) ;;)	7.00 mm.	RMT	25282	
ii)	8.00 mm.	RMT	32547	
iii)	9.00 mm.	RMT	32547 36187	
iv)	10.00mm.	RMT	43480	
<u>v)</u>	12.00 mm.	RMT	43460	
ac)	Dia of Pipe :1600.00 mm (I. D.) Thickness of pipe :			+
i)	7.00 mm.	RMT	26094	+
<u>i)</u> ii)	8.00 mm.	RMT	29840	
11/				+
iii)	9.00 mm.	RMT	33591	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs 2024-25
1	2	3	4	5
V)	12.00 mm.	RMT	44872	1
ad)	Dia of Pipe :1650.00 mm (I. D.)			
,	Thickness of pipe :			
i)	8.00 mm.	RMT	30768	
ii)	9.00 mm.	RMT	34635	
iii)	10.00mm.	RMT	38506	
iv)	12.00 mm.	RMT	46263	
ae)	Dia of Pipe : 1700.00 mm (I. D.)			
	Thickness of pipe :			
i)	8.00 mm.	RMT	31696	
ii)	9.00 mm.	RMT	35679	
iii)	10.00 mm.	RMT	39666	
iv)	12.00mm.	RMT	47655	
af)	Dia of Pipe : 1750.00 mm (I. D.)			
	Thickness of pipe :			
i)	8.00 mm.	RMT	32624	
ii)	9.00 mm.	RMT	36723	-
iii)	10.00 mm.	RMT	40826	
iv)	12.00mm.	RMT	49047	-
ag)	Dia of Pipe : 1800.00 mm (I. D.)		1. "	
	Thickness of pipe :		00550	
<u>i)</u>	8.00 mm.	RMT	33552 37766	
<u>ii)</u>	9.00 mm.	RMT		
iii)	10.00 mm.	RMT	41986 50439	
iv)	12.00mm.	RMT	50439	
ah)	Dia of Pipe : 1850.00 mm (I. D.)			
:)	Thickness of pipe :	DMT	34479	
<u>i)</u>	8.00 mm.	RMT RMT	38810	+
<u>ii)</u> iii)	9.00 mm. 10.00 mm.	RMT	43146	+
iv)	12.00mm.	RMT	51831	
ai)	Dia of Pipe : 1900.00 mm (I. D.) Thickness of pipe :		01001	
ai)	Thickness of pipe :			
i)	8.00 mm.	RMT	35407	
 ii)	9.00 mm.	RMT	39854	1
 iii)	10.00 mm.	RMT	44306	1
iv)	12.00mm.	RMT	53222	1
aj)	Dia of Pipe : 1950.00 mm (I. D.)			1
~1/	Thickness of pipe :			1
i)	8.00 mm.	RMT	36335	
 ii)	9.00 mm.	RMT	40898	
iii)	10.00 mm.	RMT	45465	
iv)	12.00mm.	RMT	54614	
ak)	Dia of Pipe : 2000.00 mm (I. D.)			
,	Thickness of pipe :			
i)	8.00 mm.	RMT	37263	
ii)	9.00 mm.	RMT	41942	
iii)	10.00 mm.	RMT	46625	
iv)	12.00mm.	RMT	56006	
	16.00 mm.	RMT	74823	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
al) [Dia of Pipe : 2050.00 mm (I. D.)			
	Thickness of pipe :			
i) 8	3.00 mm.	RMT	38191	
	9.00 mm.	RMT	42986	
iii) 1	10.00 mm.	RMT	47785	
	12.00mm.	RMT	57398	
v) 1	16.00 mm.	RMT	76679	
	Dia of Pipe : 2100.00 mm (I. D.)			
1	Thickness of pipe :			
	3.00 mm.	RMT	39119	
ii) S	9.00 mm.	RMT	44029	
iii) 1	10.00 mm.	RMT	48945	6. C
iv) 1	12.00mm.	RMT	58789	
v) 1	16.00 mm.	RMT	78534	
an) [Dia of Pipe : 2150.00 mm (I. D.)			
1	Thickness of pipe :			
	3.00 mm.	RMT	40047	
ii) S	9.00 mm.	RMT	45073	
iii) 1	10.00 mm.	RMT	50105	
iv) 1	12.00mm.	RMT	60181	
v) 1	16.00 mm.	RMT	80390	
ao) [Dia of Pipe : 2200.00 mm (I. D.)			
1	Thickness of pipe :			
	3.00 mm.	RMT	40974	
	9.00 mm.	RMT	46117	
iii) 1	10.00 mm.	RMT	51265	
iv) 1	12.00mm.	RMT	61573	
v) 1	16.00 mm.	RMT	82246	
ap) [Dia of Pipe : 2250.00 mm (I. D.)			
1	Thickness of pipe :			
i) 8	3.00 mm.	RMT	41902	
ii) 9	9.00 mm.	RMT	47161	
iii) 1	10.00 mm.	RMT	52424	
	12.00mm.	RMT	62965	
v) 1	16.00 mm.	RMT	84102	
aq)	Dia of Pipe : 2300.00 mm (I. D.)			
1	Thickness of pipe :			
i) 8	3.00 mm.	RMT	42830	
ii) 9	9.00 mm.	RMT	48205	
iii) 1	10.00 mm.	RMT	53584	
iv) 1	12.00mm.	RMT	64357	
	16.00 mm.	RMT	85957	
ar) [Dia of Pipe : 2350.00 mm (I. D.)			
	Thickness of pipe :			
i) 8	3.00 mm.	RMT	43758	
ii) S	9.00 mm.	RMT	49249	
iii) 1	10.00 mm.	RMT	54744	
iv) 1	12.00mm.	RMT	65748	
v) 1	16.00 mm.	RMT	87813	
as)	Dia of Pipe : 2400.00 mm (I. D.)			
	Thickness of pipe :			
	3.00 mm.	RMT	44686	
ii) g	9.00 mm.	RMT	50293	
	10.00 mm.	RMT	55904	
	12.00mm.	RMT	67140	
	16.00 mm.	RMT	89669	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
at)	Dia of Pipe : 2450.00 mm (I. D.)			
	Thickness of pipe :			
i)	8.00 mm.	RMT	45614	
ii)	9.00 mm.	RMT	51336	
iii)	10.00 mm.	RMT	57064	
iv)	12.00mm.	RMT	68532	
V)	16.00 mm.	RMT	91525	
au)	Dia of Pipe : 2500.00 mm (I. D.)			
	Thickness of pipe :			
i)	8.00 mm.	RMT	46542	
ii)	9.00 mm.	RMT	52380	
iii)	10.00 mm.	RMT	58223	6.C
iv)	12.00mm.	RMT	69924	
V)	16.00 mm.	RMT	93380	



SECTION - I (XV) FABRICATION OF M.S. PIPES & SPECIALS

ör. Io.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2023-25
1	2	3	4	5
	XV. FABRICATION OF M.S. PIPES & SPECIALS			
-	Providing, fabricating and fixing <u>expansion</u> joints for pipelines as per the drawing. The rate to include machining the strakes and steel ring as shown in the drawing and welding on either automatic welding machine or manually, Rate includes plates and flats required for expansion joint and all other materials such as synthetic rubber, rubber ring, etc. including packing as per specifications, grease, bolts and nuts, local handling, excluding GST levied by GOI & GOM in all respect etc. complete.			
	Expansion joints suitable for pipe diameters.			X
)	300 mm	Each	39131	6
i)	400 mm	Each	56470	
iii)	450 mm	Each	73455	
v)	500 mm	Each	98482	
v)	600 mm	Each	115695	
/i)	700 mm	Each	144026	
/ii)	750 mm	Each	158716	
iii)	800 mm	Each	184709	
x)	900 mm	Each	214460	
x)	1000 mm	Each	256793	
xi)	1200 mm	Each	341050	
2. 3.	Blast cleaning the surface of the old or new pipeline internally to remove all rust etc. complete, including providing copper slag/garnet, machinery, labour, cutting of pipes at required places and rewelding the same etc, complete as directed by Engineer-in-charge. (Pipes pieces if required for rewelding of old pipeline shall be paid separately.) Blast Cleaning of old or new pipeline surface internally	Sqm.	158	
	with mechanical cleaning machine having steel scraper blades with required passes including removing all rust, scaling etc. including cutting of pipes at required places, rewelding the same including cost of all materials and labour, etc, complete (Pipes pieces if required for rewelding of old pipeline shall be paid separately.)	Sqm.	158	
4.	Blast Cleaning of old pipeline surface internally by using swabbing method by passing polyurethane foam "Pig" with required hydraulic pressure, cutting of pipes at required places, rewelding the same including cost of all materials and labour, etc. complete. (Pipe pieces if required for rewelding of old pipeline shall be paid separately.)	Sqm.	186	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2023-25
1	2	3	4	5
5.	Blast cleaning the surface of the old or new pipeline externally to remove all rust including providing copper slag/garnet machinery etc. complete as directed by Engineer-in-charge.	Sqm.	171	
6.	Providing and applying primer and one coat of red oxide of iron paint internally to blast cleaned surface of the pipes.	Sqm.	51	
7.	Providing and applying <u>primer and one coat of red oxide</u> of iron paint <u>internally</u> including cleaning the surface of the pipes with steel scrappers, wire brushes, and metal cleaning solution, etc.	Sqm.	86	\mathbf{x}
8.	Providing and applying <u>primer and one coat of red oxide</u> of iron paint <u>externally</u> to blast cleaned surface of the pipes.	Sqm.	56	¢.
9	Providing and applying <u>primer and one coat of red oxide</u> of <u>iron paint</u> externally including cleaning the surface of the pipes with steel scrappers, wire brushes, and metal cleaning solution, etc.	Sqm.	122	
0.	Providing and applying <u>covering coat of grey graphite</u> of approved quality including dusting the surface etc. complete.	Sqm.	63	
1.	Providing and applying <u>one coat of zinc rich epoxy</u> primer to the internal surface of pipe line at site.	Sqm.	133	
2.	Providing and applying primer first coat of intertol 49 W emaline 05/58 pipe coat or any other equivalent approved paint to the internal surface of pipe line at site.	Sam	102	
	b) Second coat	Sqm.		
	c) Third coat	Sqm.	83	
	,	Sqm.	81	
	S			

8



SECTION - I (XVI) M.S. PIPE LAYING

Sr. <u>No.</u>	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	XVI. M. S. PIPES LAYING			
1.	Lowering, laying in position to correct line and level			
	including M. S. pipes with / without any outcoating on			
	pedestals or chairs upon prepared formation. The rate to			
	include loading, unloading, hoisting, marginal cutting			
	wherever required, assembling and tack welding, and			
	transportation upto 500 M. etc. completed as specified.			
a)	5 mm to 8 mm thick			
i)	Upto 250 mm. dia.	Rmt	522	
ii)	Above 250 mm. Upto 500 mm. dia.	Rmt	615	
iii)	Above 500 mm. Upto 750 mm. dia.	Rmt	705	
iv)	Above 750 mm. Upto 1000 mm. dia.	Rmt	798	
v)	Above 1000 mm. Upto 1250 mm. dia.	Rmt	892	
<u>v)</u> b)	Above 8 mm upto 12 mm thick		002	
i)	From 750 mm.Upto 1000 mm. dia.	Rmt	1063	
	Above 1000 mm. Upto1250 mm. dia.	Rmt	1185	
ii) iii)	Above 1250 mm. Upto 1500 mm. dia.	Rmt	1306	
	Above 1250 mm. Opto 1500 mm. dia.	Rmt	1432	
iv)		Rmt	1555	
<u>v)</u>	Above 1750 mm. Upto 2000 mm. dia.			
<u>vi)</u>	Above 2000 mm. Upto 2250 mm. dia.	Rmt	1678	
	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1806	
<u>c)</u>	Above 12 mm upto 16 mm thick	Dut	4500	
<u>i)</u>	From 2000 mm. Upto 2250 mm. dia.	Rmt	1599	
<u>ii)</u>	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1725	
iii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	1842	
iv)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	1961	
V)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2078	
vi)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	2200	
d)	Above 16 mm upto 20 mm thick			
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	2416	
ii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2551	
iii)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2685	
iv)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	2816	
V)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	2952	
vi)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	3088	
<u>e)</u>	Above 20 mm upto 25 mm thick			
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	3292	
ii)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	3480	
2.	Lowering, laying in position to correct line and level			
	including M. S. specials with / without any outcoating			
	such as distance pieces, straps, bends, tapers, etc. on			1
	pedestals or chairs upon formation. The rate to include			1
	loading, unloading, hoisting, marginal cutting wherever			1
	required, assembling and tack welding, and transportation			
	upto 500M etc. complete.			
a)	5 mm to 8 mm thick			
i)	Upto 250 mm. dia.	Rmt	729	
ii)	Above 250 mm. Upto 500 mm. dia.	Rmt	857	
iii)	Above 500 mm. Upto 750 mm. dia.	Rmt	989	+
	Above 750 mm. Upto 1000 mm. dia.	Rmt	1116	1
iv)		Rmt	1248	1
<u>v)</u>	Above 1000 mm. Upto 1250 mm. dia.		1240	<u> </u>
<u>b)</u>	Above 8 mm upto 12 mm thick	Diret	1400	
<u>i)</u>	From 750 mm.Upto 1000 mm. dia.	Rmt	1488	
<u>ii)</u>	Above 1000 mm. Upto1250 mm. dia.	Rmt	1659	
	Above 1250 mm. Upto 1500 mm. dia.	Rmt	1831	
iv)	Above 1500 mm. Upto 1750 mm. dia.	Rmt	2002	
<u>v)</u>	Above 1750 mm. Upto 2000 mm. dia.	Rmt	2179	
vi)	Above 2000 mm. Upto 2250 mm. dia.	Rmt	2348	1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs. 2024-25
1	2	3	4	5
vii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	2521	
C)	Above 12 mm upto 16 mm thick			
i)	From 2000 mm. Upto 2250 mm. dia.	Rmt	2318	
ii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	2413	
iii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	2582	
	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2745	
	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2916	
	Above 3250 mm. Upto 3500 mm. dia.	Rmt	3079	
	Above 16 mm upto 20 mm thick			
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	3326	
ii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	3475	
	Above 3000 mm. Upto 3250 mm. dia.	Rmt	3759	. ·
	Above 3250 mm. Upto 3500 mm. dia.	Rmt	3947	
	Above 3500 mm. Upto 3750 mm. dia.	Rmt	4132	
	Above 3750 mm. Upto 4000 mm. dia.	Rmt	4322	
	Above 20 mm upto 25 mm thick		1022	
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	4605	1
	Above 3750 mm. Upto 4000 mm. dia.	Rmt	4870	
	Lowering, laving in position to correct line and level	. thit	10/0	1
5.		P		
	including M. S. pipes with / without any outcoating, on		-	
	pedestals or chairs upon piers, trestles etc. The rate to			
	include loading, unloading, hoisting, marginal cutting	1.1	P	
	wherever required, assembling and tack welding,	V		
	transportation upto 500 m. etc. complete.	× .		
a)	5 mm to 8 mm thick			
i)	Upto 250 mm. dia.	Rmt	624	
ii)	Above 250 mm. Upto 500 mm. dia.	Rmt	734	
iii)	Above 500 mm. Upto 750 mm. dia.	Rmt	846	
iv)	Above 750 mm. Upto 1000 mm. dia.	Rmt	958	
V)	Above 1000 mm. Upto 1250 mm. dia.	Rmt	1071	
	Above 8 mm upto 12 mm thick			
i)	From 750 mm.Upto 1000 mm. dia.	Rmt	1275	
_	Above 1000 mm. Upto1250 mm. dia.	Rmt	1420	
	Above 1250 mm. Upto 1500 mm. dia.	Rmt	1570	
	Above 1500 mm. Upto 1750 mm. dia.	Rmt	1717	
	Above 1750 mm. Upto 2000 mm. dia.	Rmt	1868	
	Above 2000 mm. Upto 2250 mm. dia.	Rmt	2014	1
	Above 2250 mm. Upto 2500 mm. dia.	Rmt	2160	1
	Above 12 mm upto 16 mm thick			
i)	From 2000 mm. Upto 2250 mm. dia.	Rmt	1839	<u> </u>
ii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1930	
	Above 2500 mm. Upto 2750 mm. dia.	Rmt	2211	
iv)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2355	
	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2501	
	Above 3250 mm. Upto 3500 mm. dia.	Rmt	2621	
	Above 16 mm upto 20 mm thick	Dreat	2000	
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	2898	
	Above 2750 mm. Upto 3000 mm. dia.	Rmt	3061	
	Above 3000 mm. Upto 3250 mm. dia.	Rmt	3220	
iv)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	3380	
v)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	3542	
vi)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	3704	
<u>e)</u>	Above 20 mm upto 25 mm thick			
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	3948	
ii)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	4176	1

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
4	Lowering and laying in position to correct line and			
	level including M. S. specials such as distance pieces,			
	straps, bends, tapers, etc. on pedestals or chairs upon piers			
	or trestles. The rate to include loading, unloading, hoisting,			
	marginal cutting wherever required, assembling and tack			
	welding, and including transportation upto 500 m. etc.			
- 1	complete as specified.			
<u>a)</u>	5 mm to 8 mm thick	Durt	074	
i)	Upto 250 mm. dia.	Rmt	874	
i)	Above 250 mm. Upto 500 mm. dia.	Rmt	1029	
iii)	Above 500 mm. Upto 750 mm. dia.	Rmt	1183	
iv)	Above 750 mm. Upto 1000 mm. dia.	Rmt	1341	
V)	Above 1000 mm. Upto 1250 mm. dia.	Rmt	1492	
b)	Above 8 mm upto 12 mm thick			
i)	From 750 mm.Upto 1000 mm. dia.	Rmt	1785	· · · · · · · · · · · · · · · · · · ·
ii)	Above 1000 mm. Upto1250 mm. dia.	Rmt	1993	de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanción de la constanci de la constanción de la constanción de la constanc
iii)	Above 1250 mm. Upto 1500 mm. dia.	Rmt	2199	
v)	Above 1500 mm. Upto 1750 mm. dia.	Rmt	2405	1
v)	Above 1750 mm. Upto 2000 mm. dia.	Rmt	2614	1
vi)	Above 2000 mm. Upto 2250 mm. dia.	Rmt	2822	1
/ii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	3028	1
c)	Above 12 mm upto 16 mm thick	TUIL	0020	
	From 2000 mm. Upto 2250 mm. dia.	Rmt	2782	
<u>i)</u> ;;)		Rmt	2893	
<u>ii)</u>	Above 2250 mm. Upto 2500 mm. dia.			
iii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	3097	
iv)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	3297	
V)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	3494	
vi)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	3698	
d)	Above 16 mm upto 20 mm thick			
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	4063	
ii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	4285	
ii)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	4511	
v)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	4730	
v)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	4958	
/i)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	5187	
)	Above 20 mm upto 25 mm thick			
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	5529	
i)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	5843	
		TXIII	0040	
5.	Transporting within 500 meters, laying in position to correct			
	line and level <u>M. S. pipes with / without any outcoating.</u>			
	<u>on</u> <u>prepared</u> <u>bedding</u> <u>in</u> <u>trenches</u> including marginal			
	cutting wherever required, assembling tack welding the			
	same. The rate to include loading, unloading, hoisting, etc.			
	complete as specified. 5 mm to 8 mm thick			
<u>a)</u>	5 mm to 8 mm thick			
i)	Upto 250 mm. dia.	Rmt	532	
ii)	Above 250 mm. Upto 500 mm. dia.	Rmt	630	
ii)	Above 500 mm. Upto 750 mm. dia.	Rmt	725	
v)	Above 750 mm. Upto 1000 mm. dia.	Rmt	819	1
v)	Above 1000 mm. Upto 1250 mm. dia.	Rmt	914	1
<u>v)</u> b)	Above 8 mm upto 12 mm thick			1
	From 750 mm.Upto 1000 mm. dia.	Rmt	1089	1
<u>i)</u> ;;)				1
<u>ii)</u>	Above 1000 mm. Upto1250 mm. dia.	Rmt	1214	
<u>iii)</u>	Above 1250 mm. Upto 1500 mm. dia.	Rmt	1341	l
V)	Above 1500 mm. Upto 1750 mm. dia.	Rmt	1470	
V)	Above 1750 mm. Upto 2000 mm. dia.	Rmt	1592	
vi)	Above 2000 mm. Upto 2250 mm. dia.	Rmt	1717	
vii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1842	
	Above 12 mm upto 16 mm thick			1



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs 2024-25
1	2	3	4	5
i)	From 2000 mm. Upto 2250 mm. dia.	Rmt	1695	
ii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1769	
iii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	1889	
iv)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2011	
V)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2099	
vi)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	2256	
d)	Above 16 mm upto 20 mm thick			
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	2470	
ii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2605	
iii)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2745	
iv)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	2884	
V)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	3030	
vi)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	3160	
e)	Above 20 mm upto 25 mm thick			
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	3364	
ii)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	3558	1
6.	Transporting within 500 meters, laying in position to correct			·
	line and level M. S. specials pipes with / without any	6		
	outcoating, such as distance pieces, straps, bends,	- U		
	tapers, etc. on prepared bedding in trenches including			
	marginal cutting wherever required, assembling tack		<u></u>	
	welding, the same. The rate to include loading, unloading,		b	
	hoisting, etc. complete as specified.			
a)	5 mm to 8 mm thick	V		
i)	Upto 250 mm. dia.	Rmt	751	
ii)	Above 250 mm. Upto 500 mm. dia.	Rmt	880	
iii)	Above 500 mm. Upto 750 mm. dia.	Rmt	1013	
iv)	Above 750 mm. Upto 1000 mm. dia.	Rmt	1143	
V)	Above 1000 mm. Upto 1250 mm. dia.	Rmt	1280	
b)	Above 8 mm upto 12 mm thick			
i)	From 750 mm.Upto 1000 mm. dia.	Rmt	1526	
ii)	Above 1000 mm. Upto1250 mm. dia.	Rmt	1702	
iii)	Above 1250 mm. Upto 1500 mm. dia.	Rmt	1876	
iv)	Above 1500 mm. Upto 1750 mm. dia.	Rmt	2053	
V)	Above 1750 mm. Upto 2000 mm. dia.	Rmt	2385	
vi)	Above 2000 mm. Upto 2250 mm. dia.	Rmt	2490	
vii)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	2582	
C)	Above 12 mm upto 16 mm thick			
i)	From 2000 mm. Upto 2250 mm. dia.	Rmt	2374	
	Above 2250 mm. Upto 2500 mm. dia.	Rmt	2568	
iii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	2643	
iv)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	2815	
V)	Above 3000 mm. Upto 3250 mm. dia.	Rmt	2992	
vi)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	3160	
d)	Above 16 mm upto 20 mm thick			1
i)	From 2500 mm. Upto 2750 mm. dia.	Rmt	3433	
ii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	3651	
	Above 3000 mm. Upto 3250 mm. dia.	Rmt	3844	1
iv)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	4038	
v)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	4230	1
vi)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	4426	
e)	Above 20 mm upto 25 mm thick		-	
i)	From 3500 mm. Upto 3750 mm. dia.	Rmt	4707	
ii)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	4983	
,				

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	2023-24	5
7.	Welding in all positions with required number of runs, for	5		
••	M. S. pipes internally and / or externally including gauging			
	wherever necessary, fixing appurtenances and other			
	accessories in connection with pipe laying work as per			
	specification.			
i)	4 mm.	Rmt	231	
ii)	5 mm.	Rmt	350	
iii)	6 mm.	Rmt	824	
iv)	7 mm.	Rmt	919	
V)	8 mm.	Rmt	1154	
vi)	10 mm.	Rmt	1414	
vii)	12 mm.	Rmt	1514	X
viii)	14 mm.	Rmt	1802	
ix)	16 mm.	Rmt	2182	-
X)	18 mm.	Rmt	2363	0
xi)	20 mm.	Rmt	2831	
<u>xii)</u>	22 mm.	Rmt	3554	
xiii)	25 mm.	Rmt	4824	
i)	B) Lap joints with convex fillet welds Lap Lengths		-	
ii)	5 mm.	Rmt	325	
iii)	6 mm.	Rmt	415	
iv)	8 mm.	Rmt	549	
V)	10 mm.	Rmt	614	
vi)	12 mm.	Rmt	919	
vii)	14 mm.	Rmt	1247	
	16 mm.	Rmt	1374	
ix)	18 mm.	Rmt	1668	
<u>x)</u>	20 mm.	Rmt	1879	
<u>xi)</u>	22 mm.	Rmt	2514	
XII)	25 mm.	Rmt	3050	
8.	Shifting and aligning ring girders including removing			
	tack welds and re-tacking in the correct position etc.			
	complete as per specification for the pipes of following			
i)	From 1000 mm. Upto1250 mm. dia.	Rmt	629	
<u>i)</u> ii)	Above 1250 mm. Upto 1500 mm. dia.	Rmt	771	1
	Above 1500 mm. Upto 1750 mm. dia.	Rmt	909	1
	Above 1750 mm. Upto 2000 mm. dia.	Rmt	1049	1
V)	Above 2000 mm. Upto 2250 mm. dia.	Rmt	1187	1
vi)	Above 2250 mm. Upto 2500 mm. dia.	Rmt	1327	
vii)	Above 2500 mm. Upto 2750 mm. dia.	Rmt	1464	1
viii)	Above 2750 mm. Upto 3000 mm. dia.	Rmt	1607	1
ix)	Above 3000 mm. Upto 3250 mm. dia.			
-		Rmt	1746	
X)	Above 3250 mm. Upto 3500 mm. dia.	Rmt	1887	
xi)	Above 3500 mm. Upto 3750 mm. dia.	Rmt	2024	
xii)	Above 3750 mm. Upto 4000 mm. dia.	Rmt	2177	



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
9.	Transporting within 500 meters and fixing in position		-	-
	stools, base plates, roller sets, grease box covers, etc.			
	including welding wherever necessary. The rate also to			
	include fixing stools, base plates, etc. in true line and level,			
	connecting the base plate to anchor bolts by flush welding			
	including cutting the bolts, if required, assembling and			
	aligning C. I. or M. S. roller sets of any size including oiling,			
	greasing, etc. The rate also to include grouting anchor			
	bolts, welding of two halves of grease box covers as			
	directed by Engineer-in-charge, for pipes of following dia.			
	directed by Engineer-in-charge, for pipes of following dia.			
i)	From 1000 mm. Upto1250 mm. dia.	Each	2300	
ii)	Above 1250 mm. Upto 1500 mm. dia.	Each	2488	
iii)	Above 1500 mm. Upto 1750 mm. dia.	Each	2676	
iv)	Above 1750 mm. Upto 2000 mm. dia.	Each	2863	V 7
		Each	3050	-
<u>v)</u>	Above 2000 mm. Upto 2250 mm. dia.			8
vi)	Above 2250 mm. Upto 2500 mm. dia.	Each	3238	
vii)	Above 2500 mm. Upto 2750 mm. dia.	Each	3428	
	Above 2750 mm. Upto 3000 mm. dia.	Each	3612	
ix)	Above 3000 mm. Upto 3250 mm. dia.	Each	3802	
X)	Above 3250 mm. Upto 3500 mm. dia.	Each	3990	
xi)	Above 3500 mm. Upto 3750 mm. dia.	Each	4210	
xii)	Above 3750 mm. Upto 4000 mm. dia.	1.1	C	
'		Each	4363	
10.	Transporting within 500 meters and aligning, fixing in			
	position and tack welding expansion joints suitable for			
	pipeline of diameters.			
		F h	7700	
<u>i)</u>	From 1000 mm. Upto1250 mm. dia.	Each	7783	
ii)	Above 1250 mm. Upto 1500 mm. dia.	Each	8071	
iii)	Above 1500 mm. Upto 1750 mm. dia.	Each	8362	
iv)	Above 1750 mm. Upto 2000 mm. dia.	Each	8653	
V)	Above 2000 mm. Upto 2250 mm. dia.	Each	16357	
vi)	Above 2250 mm. Upto 2500 mm. dia.	Each	16722	
vii)	Above 2500 mm. Upto 2750 mm. dia.	Each	17086	
/iii)	Above 2750 mm. Upto 3000 mm. dia.	Each	17339	
ix)	Above 3000 mm. Upto 3250 mm. dia.	Each	17819	
x)	Above 3250 mm. Upto 3500 mm. dia.	Each	18185	
xi)	Above 3500 mm. Upto 3750 mm. dia.	Each	18546	
	Above 3750 mm. Upto 4000 mm. dia.	Laon	10010	
~")		Each	18912	
11.	Transporting within 500 meters aligning and fixing in			
	position and tack welding only, including marginal cutting,			1
1	supplying and providing rubber packing etc. where			1
				1
	necessary.			
	A) Minor fixtures such as manhole cover, pressure and non-			
	pres-sure type blank flanges, loose rings, small pipes to			1
	form saddle bypass arrangement, plug plates, ladders,			1
	platform, stiffener rings, etc.			1
		МТ	13930	1
	B) Minor fixtures such as tees, domes, 'Y' branches,	1		1
	insulating flange ring assembly, etc.		7070	1
		MT	7079	
12.	Gas cutting (either square cut or V cut) pipes, plates, etc.			1
	of thickness.			
	i) Upto 5 mm.	Rmt	106	
	ii) Above 5 mm. Upto 10 mm.	Rmt	149	
	iii) Above 10 mm. Upto 14 mm.	Rmt	191	
_		Rmt	220	
	iv) Above 14 mm. Upto 18 mm.	1 1 1111		



Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
	vi) Above 22 mm.	Rmt	408	
13.	Gas cutting holes upto 50 mm dia (for plugs) Thickness of		100	
	a) 5 mm. to 12 mm	No.	116	
	b) Above 12 mm			
1/	Providing MS, bar much propared out of 16 mm dia MS	No.	161	
14.	Providing <u>M.S. bar mesh</u> prepared out of 16 mm dia M.S. bar at 15 cm. c/c both ways, welded to flanged ring including tack welding of bars and fixing the same with nuts and bolts on open faces of outlet/inlet pipes in the sump or reservoir, etc. complete as directed by Engineer-in-charge.	Sqm	2113	
15.	Providing permanent test points on the pipe line as per drawing and as directed by Engineer-in-charge including providing and fixing sluice valves, road boxes for sluice valves of size 80 mm to 250 mm in one brick masonry chamber 300 mm x 300 mm clear C. M. 1:5 with 12 mm thick in 1:3 cement plaster both inside and outside on M-100 C.C. 150 mm thick etc. complete as specified and	0	?	X
	directed.	No.	4738	
16.	Supplying transporting, the <u>S.P. fire hydrants</u> including			
	duck foot bend, S.V. and S.V. road box, painting the hydrant,fixing the saddle piece, supplying, and laying required length of C.I. pipeline and jointing the same spun yarn, molten lead including caulking, fixing the S.V. road box in one brick masonary chamber in 1:5 C.M. with 12 mm thick 1:3 cement plaster both inside and outside on 1:3:6: C.C.150 mm thick etc, complete specified and directed. [As per I.S.900/1965 Revised]		10704	
17		No.	18764	
	<u>Hydraulic testing</u> of M.S. pipeline to specified pressure including cost of all materials and labour and water for testing for the length upto 1km., using reciprocating type pumps which should be able to provide specified test pressure gauges and other necessary equipments, labour, operation charges, etc. required for testing. The rate under this item shall also include cost of retesting, if necessary.			
<u>a)</u>	Units COO many dia (LD.)	1 Km	67149	
	Upto 600 mm. dia. (I.D.) Above 600 mm. upto 750 mm. dia. (I.D.)	Km. Km.	67148 67247	
	Above 750 mm. upto 900 mm. dia. (i.D.)	Km.	67403	
	Above 900 mm. upto 1050 mm. dia. (I.D.)	Km.	67636	
V)	Above 1050 mm. upto 1200 mm. dia. (I.D.)	Km.	67866	
	Above 1200 mm. upto 1500 mm. dia. (I.D.)	Km.	68324	
	Above 1500 mm. upto 1800 mm. dia. (I.D.)	Km.	68995	
-	Above 1800 mm. upto 2250 mm. dia. (I.D.)	Km.	70123	
ix) x)	Above 2250 mm. upto 2500 mm. dia. (I.D.) Above 2500 mm. dia. (I.D.)	Km. Km.	70946 71766	
b)	Extra work initial km	NIII.	/1/00	
<u> </u>		Km.	340	
	Upto 600 mm dia. (I.D.) Above 600 mm dia. upto 750 mm dia. (I.D.)	Km.	489	
	Above 750 mm dia. upto 900 mm dia. (I.D.)	Km.	726	
	Above 900 mm dia. upto 1050 mm dia. (I.D.)	Km.	959	
	Above 1050 mm dia. upto 1200 mm dia. (I.D.)	Km.	1233	
	Above 1200 mm dia. upto 1500 mm dia. (I.D.)	Km.	1823	
	Above 1500 mm dia. upto1800 mm dia. (I.D.)	Km.	2754	1

31/197 377
(5-m)
athra Jeevan product

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
xviii)	Above 1800 mm dia. upto 2250 mm dia. (I.D.)	Km.	4226	
	Above 2250 mm dia. upto 2500 mm dia. (I.D.)	Km.	5262	
	Above 2500 mm dia. upto 2750 mm dia. (I.D.)	Km.	6366	
	Above 2750 mm dia. upto 3000 mm dia. (I.D.)	Km.	7511	
	Providing and applying with mechanical arrangement 1:3			
	proportion cement sand gunite, 40 to 50 mm thick to M.			
	S. pipe surface under 2.1 kg. per sqcm. to 2.80 kg. per			
	sqcm. pressure including removing the loose materials as			
	directed by Engineer-in-charge and including scrapping the			
	surface with wire brushes, degreasing, cleaning by			
	compressed air and providing fixing BRC fabric no.14 as			
	reinforcement, curing for 21 days, disposing off the rebound			
	materials within a lead of 50 M, etc. complete as directed by			1
	Engineer-in-charge.	Sqm.	737	
19	Providing and applying pipe coating of fibres, coal tar			- · · ·
10.	and solvent based rubber modified bituminous primer			P
	of density 0.92 gms/cu cm and viscosity of 1000-2000 cps			
	@ 150 gms/sqm followed by seven layers(4mm thick) of	6		
	polythene polymerised bitumen and polyester of local 7	- W		
	layers) pipe coat 4 mm should conform to requirement of IS-			
	10221 and AWWA C-203 for prefabricated tapes including	1		
	covering cost on pipe coating. Rates shall include cost of	11.7	Þ	
	material coating and wrapping over the pipes, handling			
	charges, preparation of pipe surface, all labour, material,			
	etc. complete.	Sqm.	794	
	Note : Pipe coating is to be done at laying work site only			
20.	Providing and applying with mechanical arrangement	Ī		
	cement sand gunite of 50 mm thickness to floors, walls,			
	floor slabs or any other structure under 2.1 kg. per sqcm. to			
	2.80 kg. per sqcm. pressure including removing the loose			
	materials on surface, cleaning with compensed air,			
	degreasing, etc. including scaffolding and curing for 21			
	days, providing and fixing BRC fabric no. 14 but excluding			
	cost of reinforcement, if any and removing rebound			
	materials within a lead of 50 M, etc. complete as directed by			
	Engineer-in-charge (for GSRs and buildings.)	Sqm.	726	
21	Providing and applying with mechanical arrangement	<u> 0q</u>	120	
<u>~</u> 1.	<u>cement sand gunite</u> of 50 mm thickness to floors, walls,			
	roof slabs or any other structure under 2.1 kg. per sqcm. to			
	2.80 kg. per sqcm. pressure including removing the loose			
	materials on surface, cleaning with compressed air,			
	degreasing, etc. including scaffolding and curing for 21			
	days, providing and fixing BRC fabric no. 14 but excluding cost of reinforcement, if any and removing rebound			
	materials within a lead of 50 M, for staging and bottom of			
1	bottom slab, etc. complete as directed by Engineer-in-			
	charge <u>(for RCC ESRs)</u>	Sqm.	641	

Sr. No.	Description	Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2	3	4	5
22.	Providing and making inner cement mortar lining to M.S.			
	pipes with mechanical devices in cement mortar 1:1			
	proportion, including cost of all materials, labour, special			
	sand required, machinery, power generation, all equipments			
	and taking necessary access openings and manholes, cuts			
	at suitable intervals as directed by Engineer-in-charge and			
	rewelding the same after done with doubler plates pipes			
	including necessary excavation, refilling concrete breaking			
	and remaking if any, breaking guniting and remaking the			
	same, repainting wherever required with epoxy paint in 3			
	coats, all dewatering including emptying the pipeline and			
	refilling the same after done with (water to be supplied by			
	department free of cost within 5 km. lead at fixed point and			1.26
	all other arrangements to be done by agency), including		\frown	
	carrying out "C" value performance test of pipeline,			
	complete job as per the directions of the Engineer-in-charge.			1
	i) 9 mm thick for pipes upto 700 mm dia.	Sqm.	576	
	ii) 12 mm thick for pipes above 700 mm dia.	Sqm.	668	
23.	Providing and applying of elastomeric (450%			
	elongation), thermoplastic, fire retardant, coating skin		~	
	tensile strength 18 to 21 kg/cm ² , antifungal, antibacterial,			
	anticorrosive, graft co-polymer Coating on smooth plastered		P	
	surface. 100 Micron dyufilm thickness of self bonding with			
	plastered surface and 100 Micron of top cost. For sewage			
	treatment plant (R. C. C. Tank inside coating) and water			
	treatment plant.	Sqm.	1872	
24.	Providing and applying external and internal coating	•		
	for steel structures in sewage treatement plant/water			
	treatement plant with elastomeric (450% elongation),			
	thermoplastic, fire retardant, coating skin tensile strength 18			
	to 21 kg/cm2, antifungal, antibacterial, anticorrosive, graft			
	co-polymer. 50 Micron DFT. of self bonding with steel, 50			
	Micron DFT. of inner coat and 50 Micron DFT of top coat.	Sqm.	1093	
25.	Providing and applying of elastomeric (450%			
	elongation), thermoplastic, fire retardant, coating skin			
	tensile strength 18 to 21 kg/ cm ² , antifungal, antibacterial,			
	anticorrosive, graft co-polymer coating on external pipe lines			
	in unlaid/laid condition after proper cleaning. 50 micron DFT			
	of self bonding grade with metal surface, 50 Micron DFT of			
	self bonding grade with metal surface, 50 Micron DFT inner			
	coat and 50 Micron DFT of top coat.			
	1) Water and sewage pipe lines (external) in unlaid condition.	Sqm.	1145	
	2) Water and sewage pipe lines (external) in laid condition.			
		Sqm.	1174	
26.	Providing and applying of elastomeric (450%			
1	elongation), thermoplastic, fire retardant, coating skin			
	tensile strength 18 to 21 Kg/ cm ² , antifungal, antibacterial,			
	anticorrosive, graft co-polymer coating on internal surface of			
	pipe lines. <u>100 Micron DFT of site bonding grade with</u>			
			1	1
	steel surface and 100 Micron DFT of top coat.	Sam	4 4 4 4	
		Sqm. Sqm.	1441 1538	

Sr. No.	Description		Unit	Rate (in Rs.) 2023-24	Rate (in Rs.) 2024-25
1	2		3	4	5
27.	Providing and applying of elastome	eric <u>(450%</u>		-	
	elongation), thermoplastic, fire retardant,	<u>coating</u> skin			
	tensile strength 18 to 21 kg/cm ² , antifungal				
	anticorrosive, graft co-poly-mer coating on				
	reinforcement bars. 80 to 100 micron DF	T With self			
	bonding trade of bar coating.		NAT	50404	
1.	6 mm dia.		MT	52404	
2.	8 mm dia.		MT	40099	
3.	10 mm dia.		MT	31775	
4.	12 mm dia.		MT	26441	
5.	16 mm dia.		MT	19799	
6.	20 mm dia.		MT	16113	
7.	25 mm dia.		MT	12724	
8.	32 mm dia.		MT	10197	
9.	40 mm dia.		MT	7744	
28.	Providing and <u>applying of H D P E coating</u>	for MS pipe	. 9		
	internally as well as externally including co			1	
	powder moulding pipe grade, labour, scrap				
	surface with wire brushes, degreasing,			r	
	compressed air and surface grinding and finis		× .		
	cost of loading , unloading and handling of p				
	etc. complete as directed by Engineer -in -cha HDPE coating thickness Total coat	ting thickness			
	in micron	in micron			
	External Internal				
1.	0 2000	2000	Sq. m	2883	
2.	2000 1000	3000	Sq. m		
3.	3000 1000	4000	Sq. m		
4.	3000 2000	5000	Sq. m	4783	



SECTION - I (II) P.P.R.-C. PIPES

Sr. No.	Description 2		Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1					5		
1	Providing and Supplying 3 Layer PPR-C Pipes (Poly Propylene Random Copolymer) in standard length with ISI Mark approved by CBRI (Conformed IS : 15801) UV Stabilized and antimicrobial Fusion welding. Rates including transportation and freight charges, inspection charges, loading unloding charges , inspection to the dpartmental stores and stacking the same excluding GST levied by GOI and GOM in all respect	3					
	Working Processo PN10/SDP11/S 5 2 1	aver		-			
	Working Pressure PN10/SDR11/S 5.3 L						
	20 mm 25 mm	Rmt	55.00 83.50			<u> </u>	
	32 mm	Rmt Rmt	158.00	1	-V	<u> </u>	
	40mm	Rmt	198.00	100		<u> </u>	
	50 mm	Rmt	301.00		-	<u> </u>	
	63 mm	Rmt	496.00			<u> </u>	
	75 mm	Rmt	667.00	10		<u> </u>	
	90 mm	Rmt	1040.50	1		<u> </u>	
	110mm	Rmt	1494.50			<u> </u>	
	125mm	Rmt	2355.50			<u> </u>	
	140mm	Rmt	2787.00				
	160mm	Rmt	3217.50				
	180mm	Rmt	4386.50				
	200mm	Rmt	5555.00		1		
	250 mm	Rmt	8704.00				
	315 mm	Rmt	14493.50				
	355 mm	Rmt	18419.50				
	400 mm	Rmt	23359.00				
	Working Pressure PN16/SDR7.4/S 3.2 3 Laye	er					
	16 mm	Rmt	67.00				
	20 mm	Rmt	70.50				
	25 mm	Rmt	106.50				
	32 mm	Rmt	171.50			<u> </u>	
	40 mm	Rmt	275.50				
	50 mm	Rmt	432.00				
	63 mm	Rmt	699.00				
	75 mm	Rmt	969.00				
	90 mm	Rmt	1469.50				
	110 mm	Rmt	2077.50				
	125 mm	Rmt	3277.50				
	140 mm	Rmt	3877.00				
	160mm	Rmt	4476.50				
	180 mm	Rmt	6136.00				
	200 mm	Rmt	7795.50				
	250 mm	Rmt	12208.00				
	315 mm	Rmt	17809.50				
	Working Pressure PN20/SDR 6/S 2.5 Layer						
	16 mm	Rmt	81.00				
	20 mm	Rmt	83.50				
	25 mm	Rmt	124.50				
	32 mm	Rmt	204.50				
	40 mm	Rmt	316.50				
	50 mm	Rmt	507.00				
	63 mm	Rmt	812.00		1	ł	

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
1	2	3	4	ļ	5	5
	75 mm	Rmt	1139.00			
	90 mm	Rmt	1646.00			
	110 mm	Rmt	2463.00			
	125 mm	Rmt	3841.00			
	160 mm	Rmt	5219.50			
	200 mm	Rmt	9354.50			
	The rate like lowering, laying, hydraulic					
	testing etc of PPR C Pipes are same as per					
	HDPE Pipe With Respect of its PN rating					
	mentioned in SSR Of MJP				÷	
2	Providing and Supplying Fusion Welding PPR					
	Fitting as per IS 15801 approved by CBRI and				NV	E
	Comatible to PPR C Pipes (Poly Propylene					
	Random CoPolymor) Rates including				1	
	transportation, Internal testing, loading,			- A		
	unloading, excluding GST Levied by GOI and			2.1	7	
4	GOM in all aspect					
1	Coupling	Ma	11.50	-		
	16 20	No.	11.50	<u></u>		
		No.				
	25	No.	17.50		a	
	32	No.	27.50			
	40	No.	48.00			
	50	No	65.50	a		
	63	No.	145.00			
	75	No.	207.50			
	90	No.	424.00			
	110	No.	630.50			
	160	No.	1324.50			
2	Plain Elbow 90°	-				
	16	No.	13.00			
	20	No.	14.50			
	25	No.	22.00			
	32	No.	36.50		1	
	40	No.	58.00			
	50	No.	144.00			
	63	No.	297.00			
	75	No.	453.00			
	90	No.	779.50			
	110	No.	1195.50			
	125	No.	2125.00			
	140	No.	2595.50			
	160	No.	3066.50			
	180	No.	3914.50			
	200	No.	8256.50			
3	Plain Elbow 45°					
-	20	No.	16.50			
	25	No.	27.50			
	32	No.	43.00			
	40		66.00			
	50	No.	127.00			
		No.				
	63	No.	271.00			
	75	No.	557.00			
	90	No.	809.50			
	110	No.	1495.50			
	125	No.	2278.50			
	160	No.	3073.00			

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)) 2024-25	
1	2		4		5	5	
4	Equal Tee	3					A S
-	16	No.	20.50				
	20	No.	22.00				ALL STORES
	25	No.	29.50				
	32	No.	59.00				
	40	No.	93.00				
	50	No.	157.00				
	63	No.	407.00				
	75	No.	518.50				
	90 110	No.	1000.50 1627.50				
	125	No.	2827.00		- 10		
	140	No.	3433.50				
	160	No.	4040.50	P		-	
	180	No.	4846.00				
5	Reducer				1		
	20/16	No.	16.00	- 1	1		
	25/16	No.	16.50	le."			
	25/20	No.	19.50	1			
	32/20	No.	26.00	-	11		
	32/25	No.	27.50				
	40/20	No.	36.50	-			
	40/25 40/32	No.	37.50 38.50		a (1		
	50/20	No.	53.00				
	50/25	No.	54.00				
	50/32	No.	56.00				
	50/40	No.	61.00				
	63/20	No.	91.50				
	63/25	No.	94.50				
	63/32	No.	98.00				
	63/40	No.	102.00				
	63/50	No.	109.00				
	75/63	No.	208.00				
	75/50 75/40	No.	218.50 229.50				
	75/32	No. No.	229.50				
	75/25	No.	253.00				
	75/20	No.	265.50				
	90/75	No.	377.00				
	90/63	No.	292.50				
	90/50	No.	307.50				
1	90/40	No.	322.50				
	90/32	No.	339.00				
	90/25	No.	466.00				
	90/20	No.	356.00				
	110/90	No.	621.00 652.00				
	110/75 110/63	No. No.	652.00				
	110/50	NO.	719.00				
	110/40	No.	719.00				
	110/32	No.	792.00				
	110/25	No.	831.00				
	110/20	No.	858.00				
	125/110	No.	1232.50				
	125/90	No.	1222.50				
	125/75	No.	1253.50				
	125/63	No.	1286.00				
	125/50	No.	1320.50				

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
1	2	3	4	5
	125/40	No.	1356.50	
	125/32	No.	1393.50	
	125/25	No.	1433.00	
	125/20		1459.00	
		No.		
	160/110	No.	1209.00	
	160/90	No.	1269.50	
	160/75	No.	1332.50	
	160/63	No.	1399.00	_
	160/50	No.	1469.50	
	160/40	No.	1543.00	
	160/32	No.	1620.50	-
	160/25	No.	1701.00	
	160/20	No.	1786.50	
6	Reducing Elbow	(
	20/16	No.	25.00	
	25/20	No.	28.00	
	32/20	No.	43.50	
	32/25	No.	46.00	
	40/20	No.	73.50	1 1
	40/25	No.	73.50	
	40/32	No.	78.00	
_	50/40	No.	137.00	
7	Reducing Tee	NO.	137.00	
<u> </u>		Ala	28.00	
_	20/16/20	NO.		
_	25/16/25	No.	30.50	
_	25/20/25	No.	37.00	
_	32/20/32	No.	66.50	
	32/25/32	No.	68.00	
	40/20/40	No.	97.50	
	40/25/40	No.	102.50	
	40/32/40	No.	105.00	
	50/20/50	No.	176.50	
	50/25/50	No.	185.00	
	50/32/50	No.	188.00	
	50/40/50	No.	192.00	
	63/20/63	No.	328.00	
	63/25/63	No.	331.00	
	63/32/63	No.	333.50	
_	63/40/63	No.	339.00	
	63/50/63	No.	344.50	
_	75/63/75	No.	546.00	
_	75/50/75	No.	573.50	
-	A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR O		602.50	
	75/40/75 75/32/75	No.	632.50	
_		No.		
-	75/25/75	No.	664.00	
	75/20/75	No.	697.00	
	90/75/90	No.	1016.50	
	90/63/90	No.	1067.00	
	90/50/90	No.	1120.50	
	90/40/90	No.	1177.00	
-	90/32/90	No.	1235.50	
	90/25/90	No.	1297.00	
	90/20/90	No.	1362.00	
	110/90/110	No.	1652.00	
	110/75/110	No.	1735.50	
		No.	1821.50	
	1110/63/110			1 1
	110/63/110			
	110/63/110 110/50/110 110/40/110	No.	1913.00 2008.50	

Sr. No.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1	2		4		5		
	110/25/110	No.	2214.50				
	110/20/110	No.	2325.00				
	125/110/125	No.	2815.00				
	125/90/125	No.	2745.00				
	125/75/125	No.	2775.50				
	125/63/125	No.	2808.00				
	125/50/125	No.	2843.00				
	125/40/125	No.	2878.50				
	125/32/125	No.	2915.00				
	125/25/125	No.	2954.50		-		
	125/20/125	No.	2981.50				
	160/110/160	No.	4081.50				
	160/90/160	No.	4285.00			-	
_	160/75/160	No.	4499.50	÷	1		
_	160/63/160	No.	4724.50				
_	160/50/160	No.	4960.50	2			
_	160/40/160	No.	5208.50				
_	160/32/160	No.	5468.50	1			
	160/25/160	No.	5742.00	4			
_	160/20/160	No.	6029.50	1		<u> </u>	
3	End cap						
_	16	No.	11.50				
	20	No.	14.00				
_	25	No.	18.00				
	32	No.	28.00				
	40	No.	38.50				
	50	No.	66.00				
	63	No.	114.00				
	75	No.	196.00				
	90	No.	437.50				
	110	No.	613.50				
-	160	No.	1524.00		· · · · · · · · · · · · · · · · · · ·		
	200	No.	1925.00				
	250	No.	2456.00				
	315	No.	3193.00		a		
9	Flange Core (Stub End)						
	20	No.	118.50				
-4	25	No.	133.00				
	32	No.	148.50				
	40	No.	157.00				
_	50	No.	174.50				
	63	No.	180.50				
	75	No.	193.50			1	
	90	No.	390.50			1	
	110	No.	416.50			1	
	125	No.	755.00	L		1	
	160	No.	1098.50			1	
0	PPR Slip-on Flange						
	20	No.	307.50				
	25	No.	322.50				
	32	No.	337.50				
	40	No.	379.50	<u> </u>		1	

Sr. No.	Description 2	Unit 3	Rate (Rs.) 2023-24		Rate (Rs.) 2024-25		
1							
	50	No.	409.00		l I		
	63	No.	482.50				
	75	No.	667.00				
	90	No.	802.00				
	110	No.	920.00				
	160	No.	1470.00				
11	Plain Union	No.	0.00				
<u> </u>	20	No.	77.50				
	25	No.	127.00				
	32	No.	240.00				
	40	No.	303.00		-		
	50	No.	601.00				
	63	No.	1034.00				
12	4Way /Cross Tee	110.	1004.00		A		
12	16	No.	36.00				
	20	No.	38.50	~ /			
	25	-	60.50	10			
	32	No.	80.50	-	· · · · · ·		
	40	No.		-			
	2	No.	134.00	P			
	50 63	No.	212.00	-			
10		No.	295.00				
13	Pipe Clamp		10.55				
	16	No.	10.50				
	20	No.	11.50				
	25	No.	12.50		a		
_	32	No.	15.50	u			
	40	No.	27.50				
	50	No.	36.50				
	63	No.	56.00				
14	Long Plug						
	1/2"	No.	12.00	c			
	3/4"	No.	16.50	4			
	1"	No.	17.00				
		No.					
15	Tank Connector				0		
1	20	No.	97.50				
	25	No.	171.50				
	32	No.	198.00				
	40	No.	202.00				
	50	No.	351.00				
	63	No.	424.50				
		5,056,059	annan Alabarta				
16	Ball Valve Plastic (Heavy Body)						
-	20	No.	194.50				
	25	No.	275.50				
	<u>32</u>	No.	458.50				
	40	No.	627.00		<u> </u>		
	50	No.	851.50				
	63	No.	1202.50		├		
	75		1202.50		<u>├</u>		
		No.					
	90	No.	3234.00				
	110	No.	5862.00				

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs	.) 2024-25
1	2	3	4	1		5
47						
17	Male Threaded Coupling		407.50			1
	16*1/2	No.	107.50			<u> </u>
	20*1/2	No.	109.00			
	25*1/2	No.	125.00			
	25*3/4	No.	182.50			<u> </u>
	32*1/2	No.	164.50			
	32*3/4	No.	213.50			
	32*1	No.	271.50			
	40*1-1/4	No.	510.00		- di.	
	50*1-1/2	No.	912.00			
	63*2	No.	1457.00			
	75*2-1/2	No.	2130.50			
	<u>90*3</u>	No.	5013.50	×	1	
	110*4	No.	6504.00	- A		
			(2.		
18	Female Threaded Coupling			-		
	16*1/2	No.	71.00	-		
	20*1/2	No.	78.50	11		
	25*1/2	No.	88.50	1		<u> </u>
	25*3/4	No.	155.00			<u> </u>
	32*1/2	No.	130.50	······		<u> </u>
	32*3/4	No.	181.50			<u> </u>
	32*1	No.	230.00			<u> </u>
	40*1-1/4	No.	391.50			<u> </u>
	50*1-1/2	No.	649.50	()()	4 E	<u> </u>
	50*2	No.	1066.00		<u>.</u>	<u> </u>
	63*2	No.	1101.00	i	<u> (</u>	<u> </u>
	75*2-1/2	No.	2413.00	2		<u> </u>
	90*3	No.	4568.00			<u> </u>
	110*4	-	6198.50	1		<u> </u>
10		No.	0196.00			<u> </u>
19	Female Threaded Tee	N	75.00			┣━━━
	16*1/2	No.	75.00			<u> </u>
	20*1/2	No.	80.50			<u> </u>
	25*1/2	No.	98.50			<u> </u>
	25*3/4	No.	177.50			<u> </u>
	32*1/2	No.	159.00			<u> </u>
	32*3/4	No.	223.50			┣───
	32*1	No.	277.00	·		
	40*1-1/4	No.	416.50			
20	Male Thraeded Tee					
	16*1/2	No.	121.50			
	20*1/2	No.	123.00			
	25*1/2	No.	136.50			
	25*3/4	No.	208.00			
	<u>32*1/2</u>	No.	198.50			1
	32*3/4	No.	257.50			1
	32*1	No.	298.50		1	1
	40-1-1/4	No.	540.50			†

Sr. No.	Description 2	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2024	1-25
1		3			5	
21	Female Threaded Eibow					
	16*1/2	No.	71.00			
	20*1/2	No.	75.00			
	25*1/2	No.	94.00			
	25*3/4	No.	153.50			
	32*1/2	No.	149.00			
	32*3/4	No.	225.50			
	32*1	No.	280.50			
	40*1-1/4	No.	411.00			
22	Male Thraeded Eibow					
-	16*1/2	No.	107.50	· · · · · · · · · · · · · · · · · · ·		
	20*1/2	No.	109.00			
_	25*1/2	No.	131.00			
_	25*3/4	No.	197.50			
_	32*1/2	No.	174.00			
_	32*3/4	No.	221.50	~ /		
	32*1	No.	275.50	1	<u>├</u> ──-	
_	32*1 40*1-1/4	No.	548.50	-		
23	Gate Valve	NO.	540.50	-	<u>├</u> ──-	
5		No	506.00	1		
_	20	No.	555.50			
	25	No.	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se			
_	32	No.	782.50			
	40	No	1177.00			
	50	No.	1447.50			
	63	No.	1959.50		21	
24	Male Threaded Union					
	20*1/2	No.	368.00			
_	25*3/4	No.	436.00			
_	32*1	No.	672.50			
	40*1-1/4	No.	1051.50			
	50*1-1/2	No.	1961.00			
	63*2	No.	3138.00			
25	Female Threaded Union	1000				
	20*1/2	No.	302.50			
	25*3/4	No.	421.50			
	32*1	No.	619.50			
	40*1-1/4	No.	1002.00			
-	50*1-1/2	No.	1681.00			
	63*2	No.	2882.00			
26	Double Union Ball Valve					
	20	No.	1054.50			
	25	No.	1438.50			
	32	No.	2385.50			
	40	No.	4907.00			
	50	No.	7359.00			
	63	No.	10506.50			
27	By Pass Bend					
	25	No.	103.50			
	32	No.	239.50			

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs	.) 2024-25
1	2	3	4		5	
28	Female Weld in saddle					
20	160*1/2	No.	1436.00			
	110*1/2	No.	1216.50			
	90*1/2	No.	977.50			
	75*1/2	No.	780.50			
	160*3/4	No.	1461.50			
	110*3/4	No.	1237.50			
	90*3/4	No.	991.50			
	75*3/4	No.	792.50			
	63*1/2	No.	488.50			
29	Weld in saddle Reducer					
2.5	200/63	No.	718.50			<u> </u>
	200/50	No.	754.00			-
	200/40	No.	791.50			
	200/32	No.	830.50			<u> </u>
	200/25	No.	873.00	7.1		
	200/20	No.	917.00	-	-	<u> </u>
	160/63	No.	610.00	1		<u> </u>
	160/50	No.	639.50			
	160/40	No.	671.50	1		<u> </u>
	160/32	No.	705.50			
	160/25	No.	740.50			
	160/20	No.	777.50			<u> </u>
	110/63	No.	515.50			
	110/50	No.	542.00			
	110/40	No.	568.00		2	
	110/32	No.	597.00	0		
	110/25	No.	625.50			
_	110/20	No.	657.50			
	90/63	No.	312.00			
	90/50	No.	328.00	2		
	90/40	No.	344.50		-	
	90/32	No.	361.00			<u> </u>
	90/25	No.	379.50			
	90/20	No.	398.00		-	
30	Flanged Ended Ball Valve	10000				
	20	No.	1016.50			
- 4	25	No.	1143.50		-	
-	32	No.	1270.50			
_	50	No.	1651.50			
	63	No.	2033.00			
	75	No.	3049.00			<u> </u>
	90	No.	4065.50			
	110	No.	7305.50			
	160	No.	20836.00			
31	Reducer					<u> </u>
	200/160	No.	2439.50			
	200/110	No.	2531.00			
	200/90	No.	2657.50			
	250/200	No.	3629.00			
	250/200	No.	3706.00			
	250/100	No.	3890.50			

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 20)24-25
1	2	3	2	4	5	
	250/90	No.	4085.50			
	315/250	No.	4494.00			
	315/200	No.	4943.50			
	315/160	No.	5438.00			
	315/110	No.	5981.50			
32	Reducing tee					
	200/160	No.	20903.00			
	200/110	No.	21948.50			
	200/90	No.	23045.50			
	250/200	No.	30787.50			
	250/160	No.	28986.50			
	250/110	No.	28128.50			
	250/90	No.	27700.00	(
	315/250	No.	32159.50	\$		
	315/200	No.	31302.00	- A		
	355/250	No.	36447.50	2.4	-	
	355/200	No.	35590.00			
	315/160	No.	34732.50	-		
	315/110	No.	33017.00	di la		
	400/355	No.	45881.00			
	400/315	No.	45109.50			
	400/200	No.	44251.50			
33	Elbow 90°		dr.			
	200	No.	8256.50			
	250	No.	14571.50			
	315	No.	25257.50			
	355	No.	32159.50			
	400	No.	40465.50			
34	Eibow 45°					
	200	No.	7430.50			
	250	No.	13114.00			
	315	No.	19375.50			
35	Equal Tee					
	200	No.	11222.00			
	250	No.	24737.00			
	315	No.	27888.00	1.		
	355	No.	35383.50			
	400	No.	44505.50	2		
36	Sandwich Flange With steel Inlay					
	160	No.	6683.00			
	200	No.	9389.00			
	250	No.	11619.50			_
	315	No.	14194.50			
37	Eibow 90°					
	200	No.	7445.50			
	250	No.	13401.00			
	315	No.	18708.50			
	355	No.	23822.00			
	400	No.	29984.00			

Sr. No.	Description 2 Eibow 90°	Unit	Rate (Rs.) 2023-24	Rate (Rs]	
1		3	4		5		ALAT ST
38							(A B)
	200	No.	9430.50				(be
	250	No.	22831.00				albor Jeevan Pri
	315	No.	25114.00				1
	355	No.	30136.50				1
	400	No.	32970.00				1
39	Flange Core (stub End)						1
	200	No.	1277.50]
	250	No.	2178.00				1
	315	No.	3875.50		- 6.		1
	355	No.	5654.00				1
	400	No.	7560.00		5.124		1
40	Reducing Tee						1
	200/160	No.	15483.50		1		1
	200/110	No.	16258.00	and the	1		1
	200/90	No.	17071.50	2.			1
	250/200	No.	22806.00				1
	250/160	No.	21471.50	-			1
	250/110	No.	20836.00	11			1
	250/90	No.	20519.00	1			1
	315/250	No.	23822.00				1
	315/200	No.	23187.00				1
	355/250	No.	26998.50				1
	355/200	No.	26363.00				1
	315/160	No.	25728.00				1
	315/110	No.	24457.50				1
	400/355	No.	33986.00				1
	400/315	No.	33414.00				1
	400/200	No.	32779.00				1

NRS



SECTION - J (I) TREATMENT PLANTS (WTP & STP)

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25]
	1		Complete	Labour	Complete	Labour	1
	Water Treatment Plant (WTP)						ALL ALL ALL
1	Designing (aesthetically), providing and constructing high rate Unconventional Water Treatment Plant i.e. Simplified Water Treatment Plants consisting of Civil Works, including cost of providing and applying Epoxy paint to inside surface of water retaining structures in contact with Chlorine and providing anti-termite treatment to entire structure below ground level, Mechanical and Electrical components of variours sub-						A Start Revent
	works as given below : including necessary hydraulic testing, structural testing and trial run for 3 months, etc. complete as directed by Engineer-in-charge . (turn-key job).						
	1) Aeration fountain				N		1
	2) Inlet arrangements				NV	b	
	 Mixing channel with ventury flume and flow measuring arrangement. 				6]
	4) Inlet channel		6	1	V		1
	5) Flocculator- Confirming to I.S. 7208-1974 (Type-C) with detention period of 30 minutes.		0	C			
	6) Tube Settlers - " Designing, fabricating and construct Tube Settlers with square or any other shaped tube like Circular, Cheveron, Hexagonal etc. having proven performance.")	50				
	7) Rapid sand gravity filters Rapid sand gravity filters including head stock arrangement with solid extension spindle for valves suitable / compatible for mounting actuators.	V					
	8) Filter house	ē.					1
	9) Chemical house						
	10) Alum tanks 2 Nos. with mixing, carrying and						4
	11) Gravity feed gas chlorinator with 100% standby.12) TCL solution tank with mixing, carrying and						+
	13) Bye-pass arrangement						1
	14) External and internal electrification						1
	15) Laboratory equipments						1
	16) Wash water tanks of capacity equal to 2% of						1
	 17) Wash water pumps with 100%standby 18) Pure water sump capacity equal to 1 hour pumping capacity 						
	19) Pure water pump house over the sump / by the side of sump						1
	20) Drainage arrangements						1
	21) Alum store						1
	22) Sanitary block with necessary water supply and drainage arrangement and internal WBM roads						1
	23) These rates are applicable for seismic zones 2,3, and 4						1
	24) Rates given below are inclusive of uplift pressure if any and dewatering during the entire work]
	25) All RCC structures shall be constructed in M-300]
	26) Unconventional Treatement Plants less than 1 MLD capacity shall not be constructed						

(203)

No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs.) 2024-25]
	27) Air blowers capable of delivering 600 LMP per square metre of free air of filter area at 0.4 Kg/ sqcm at the under drains (100% standby). Unconventional Treatement Plants upto 3 MLD capacity Blower shall not included however capacity above 3 MLD Blower shall be included.						
	28) Unconventional Treatement Plants upto 5 MLD capacity 100 Kg. chlorine cylinder shall be provided and capacity above 5 MLD chlorine 900 kg tonner shall be provided.						
	29) All valves required in WTP shall be glandless instead of traditional valve.						
	30) All railings required for WTP shall be stainless steel Pipe railing instead of G.I.Pipe railing.						
	31) External painting for WTP shall be in acrylic emulsion with silicon additives paint instead of waterproof cement paint.			0	Ň	. A.	
	32) Internal flooring for WTP shall be in Ceramic tiles instead of Mosaic tiles				V		
	33) " All the structural steel works /fabrications are to be provided with application of Hot Dip Zinc coating according to specificationa as per IS 4759:1996 (Reaffirmes 2006)		0	5			
	34) Tha base slab of Back wash water tank and Top slab of Chemical house or Admin building should be separate.Common slab for wash water tank and Admin building is not allowed.	5	24				
	35) The cost of Chlorine contact tank (CCT) is in in included in these rate.	V	P				
	Note:- Conditions from Sr.No. 1 to 35 shall form a part and parcel of the tender and must be included in draft tender papaers for the work of unconventional treatment plants.						
	The rates are as under :-						1
Sr. No.	Capicity in Mld.	UNit	Rs. In La	khs			
1)	Fixed cost for 1 MLD	Job	76.44	30.51			
2)	Add for capacity above 1 MLD upto 2 MLD	MLD	33.86	13.18			
3)	Cost of 2 MLD treatment plant	Job	110.30	43.69			
4)	Add for capacity above 2 MLD upto 5 MLD	MLD	25.63	7.62			1
5)	Cost of 5 MLD treatment plant	Job	187.19	66.54			1
6)	Add for capacity above 5 MLD	MLD	20.07	9.39			1
7)	Cost of 10 MLD treatment plant	Job	287.53	113.51			
2	Designing (aesthetically), providing and constructing and commissioning Conventional Water Treatment Plant consisting of Civil Works, including cost of providing and applying Epoxy paint to inside surface of water retaining structures in contact with Chlorine and providing anti-termite treatment to entire structure below ground level, Mechanical and Electrical components of variours sub-works as given below : including necessary hydraulic testing, structural testing,equipment testing and trial run for 3 months, etc. complete as directed by Engineer-in-charge.(turn-key job).						

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
	1) Aeration Fountain : Plan area not less than 0.625						ANT
	square metre per MLD						- Contraction
	 Ventury Flume : With necessary devices, consisting of simple mechanical indicator (Pedestal type guage) 						
	3) Flash Mixer Rapid mixing device, detention time 60 sectonds to give velocity gradient 300 to 400 sec-1 vane mixer type confirming to IS 7090 of 1985						After un 1
	4) Flocculator : Confirming to I.S. 7208 of 1974 (Type-C) with dentention period of 30 minutes						
	5) Clarifier : Horizontal flow circular tank, detention period 2-5 hours, overflow rate 30 cubic metre per squre metre per day (tobe specificed), Weir loading not more than 300 cubic metre per metre per day, with mechanical sludge scraper conforming to I.S. 10313/1982			_	, D		
	6) Rapid Sand Filters and Filter House Filter designed for filteration rate of 5,000 liters per squre metre per hour, minimum 2 beds for plant upto 10MLD for larger plants as specified, filters house with roof slab, pipe gallery and plat form minimum 5.5 metre in width including head stock arrangement with solid extension spindle for valves suitable / compatible for mounting actuators.		3	5			
	a) Filter Sand : Effective size 0.45 to 0.70mm, uniformity coefficient not more than 1.7, nor less than 1.3, depth of water over sand 0.75M, free board 50 cm , gravel 0.45 M depth, sand and gravel confirming to I.S. 849 (I)-77 back wash by air wash, Standard appurtenances (to be specificed), rate of flow controller, filler guage, sand expansion guage etc.	2	5				
	b) Wash Water Tank : Capacity to be specified and suitable to supply water to wash 2 filter units at a time where the units are 4 or more.						
	c) Wash Water Pumps: Capacity to fill water tank in 1 hours with 100% standby						
	d) Air Blowers : Capable of delivering 600 LMP per square metre of free air, of filter area at 0.4 Kg/square cm at the underdrains (100% stand by)						
	7) Chemical House in Two Storeys a) Ground floor to accommodate 7 days alum requirem ent and sundry storage.						
	b) First floor to accommodate alum and lime tanks etc.						
	c) Solution tanks : Minimum 3 tanks (One for preparation, Second for dosing and third as standby), each tank capable of giving 8 hours maximum dose without interruption, minimum free board 0.30M trays for dissolving, level indica tor mechanical agitation devices, solution feed and drain lines, solution feed device(Constant head device strength of solution upto 10% only) confirming to I.S.9222 part-I/1979.						
	8) Pure water Sump and Pump House						1
	a) Capacity of sump : One hour of designed flow.]
	b) Pump House : Pump house of required size over the sump or by the side						1
	9) Store House : Suitable for alum storage of three months requirement in mansoon with 10% extra capacity for other sundry articles.						1

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs	.) 2024-25]
	10) Vacuum feed type chlorinatros : make to be						1
	approved by MJP						ALL ALLAND
	a) Confirming to I.S. 10533- A Part-II 1983						
	b) Rate of withdrawal						
	Temperature Kg. of Chlorine discharge Degree 'C'						aby Jeevan Pro
	per day (Cylinders)						4
	45 67 Tonnes 10 6.35 9.50 110						4
	15 10.75 16.10 130						-
	20 14.50 21.24 254						1
	27&Above 18.70 28.12 315						4
	c) Chlorinator equipment and container room : to confirm to I.S. 10553 Part-I 1983				6		
	d) 100% standby shall be provided]
	11) By pass arrangement - C.I. Or M.S. pipes			1		5	
	12) Drainage arrangement : RCC pipes upto plot boundry.						
	13) Electrical installation : Both internal and external		-		V		1
	including entire plant area.		- C		×		
	14) Laboratory equipment : As per requirement (to be specified during tendering)		0)			1
	15) Sanitary blocks : Carpet area-15 square metre		1				4
	minimum upto 25 Mld. And 25 square metre above 25 Mld.		$\overline{\nabla}$				
	16) Adminstrative block and internal road.		\mathbf{O}				1
	To accommodate office room, chlorine room, laboratory		4				4
	room, panel board room, blower room etc. andWBM road to connect all units from main gate of plot.	V					
	17) Rates given blow are inclusive of uplift pressure if any and dewatering during entire work.						
	18) These rates are applicable for seismic zones- 2,3&4.						
	19) All RCC strucrure shall be constructed in M.300						
	20) Conventional Treatement Plants upto 3 MLD capacity Blower shall not included however capacity above 3 MLD Blower shall be included.						
	21) Conventional Treatement Plants upto 5 MLD capacity 100 Kg. chlorine cylinder shall be provided and capacity above 5 MLD chlorine 900 kg tonner shall be provided.						
	22) All valves required in WTP shall be glandless instead of traditional valve.						
	23) All railings required for WTP shall be stainless steel Pipe railing instead of G.I.Pipe railing.						1
	24) External painting for WTP shall be in acrylic						1
	emulsion with silicon additives paint instead of waterproof cement paint.						
	25) Internal flooring for WTP shall be in Ceramic tiles instead of Mosaic tiles						1
	26) " All the structural steel works /fabrications are						1
	to be provided with application of Hot Dip Zinc coating according to specificationa as per IS 4759:1996 (Reaffirmes 2006)						
	27) Tha base slab of Back wash water tank and Top slab of Chemical house or Admin building should						-
	be separate.Common slab for wash water tank and Admin building is not allowed.						

Sr. No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs	.) 2024-25	
	28) The cost of Chlorine contact tank (CCT) is in						
	included in these rate.						an ar
	NOTE:Condition from Sr. No.1 to 28 shall form a part and parcel of the tender and must be						· + J
	incorporated in draft tender papers of conventional						And the second
	treatment plants Rate for Conventional Treatment						A Jeevan
	Plants (Proposed)						
r. No	Capicity in Mld.	UNit	Rs. In La	khs			1
1)	Upto 5 MLD	MLD	47.22	18.74			
2)	Cost of 5 MLD treatment plant	Job	236.10	93.70			
3)	Add for capacity above 5 MLD upto 10 MLD	MLD	33.89	13.39	1		
4)	Cost of 10 MLD treatment plant	Job	405.54	160.66		•	
5)	Add for capacity above 10 MLD upto 20 MLD	MLD	21.66	10.01	1V	P.,	
6)	Cost of 20 MLD treatment plant	Job	622.15	260.80	1		1
7)	Add for capacity above 20 MLD upto 50 MLD	MLD	20.07	7.57	V		1
8)	Cost of 50 MLD treatment plant	Job	1224.37	488.01			1
9)	Add for capacity above 50 MLD upto 100 MLD	MLD	16.95	6.34			1
10)	Cost of 100 MLD treatment plant	Job	2071.64	805.21			1
11)	Add for capacity above 100 MLD	MLD	12.35	4.07			
3	Designing (aesthetically), providing, fabricating						1
	Package Water Treatment Plant at the shop,		P				
	transporting to site, installing, testing and commissioning at the site, giving necessary one	- V.					
	month's free test and trail run with guarantee for one						
	year, etc. complete.						
	Prefabricated Package Water Treatment Plant						
4	comprising following :						_
1) 2)	Rapid mixing channel in M.S. sheets and M.S. baffle. Flocculator not less than 10 minutes detention, in M.S.						-
2)	prefabricated box, flocculation being achieved either by						
	glass pebbles of graded size or PVC tetrapod or						
	equivalent arrangement to ensure good floc formation.						
3)	Plate or tube settlers of not less than 30 minutes						
	detention in M.S. prefabricated box, the plates / tubes mounted in the settler basin with inclination of not less						
	than 60 degree to horizontal.						
4)	Rapid sand gravity filter in M.S. prefabricated box with						-
1	filter sand not less than 500 mm thick, supported on						
	false floor below with polypropylene nozzles spaced at not more than 500 mm centres in either direction.						
5)	Backwashing, inlet & outlet facilities shall be provided.						4
,	Air blowers - Air Blowers are not required for WTP					<u> </u>	-
••••	having capacity less than and equal to 3 MLD, for WTP						
	having capacity more than 3 MLD air blowers capacity						
	of delevering 600 LPM per sqm of free air of filter area						
	0.4 kg/sqcm at underdrain (100% standby)						
5.2	Wash water tank capacity equal to 2 % of designed quantity of filer water in a day + 10 %						1
						I	4
5.3	wash water pump with 100 % standby (Minimum 3 HP						
5.3	wash water pump with 100 % standby (Minimum 3 HP with all accessories) Backwash with water not less than 0.6 cum/sqm of filter						

Sr. No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs.) 2024-25]
5.5	Piping of outlet upto sump						
6)	Laboratory equipments						ALL ALL ALL
7)	External & Internal electrification						
8)	TCL solution tank with mixing, carrying and dosing arrangement with piping.						The server Press
9)	Gravity feed gas chlorinator with 100% standby.]
10)	Four alum storage unit						
<u>11)</u> 12)	Drainage arrangement Providing room with RCC roof for office and Lab space with necessary water supply & drainage arrangement & internal roads						
13)	RCC sump of one hour cap.and pump house on it.						
14)	Internal Road					_	
15)	Wire fencing with gate for WTP premises.			1			_
16)	All civil works for foundation, consisting of raised RCC platform above G.L. or walls in B.B. masonry or UCR masonry shall be provided as per needs at site.				V		
17)	Bypass in the form of pipes or M.S. channels included in the design, effecting bypass of such new tank and filter individually or both. (Limit upto 5.0 M. from W.T.P. face)		6	5			
18)	The entire M.S. fabricated tank provided with FRP lining (5 mm thick) to inside face in contact with water epoxy painting- two coats with one coat of primer on outside. The thickness of plates employed shall not be less than 6 mm	5	24				
19)	Alum dosing and mixing arrangements to be provided in twin tanks, each of 8 hours capacity, capable of importing does of 20 ppm with 5% solution. The alum tanks provided with a dose in steps of 5 ppm and entire unit mounted on the top of flocculator / settler box, in the form of prefabricated structure, with access platform and ladder. Alum boxes with FRP lining (5 mm thick) inside and epoxy paint two coats with one coat of primer on outside.						
20)	Both flocculator and settling basins provided with hopper bottom with slope not less than 45 degrees to the horizontal drain pipes and valves provided to both flocculator and settling basin.						
21)	Flow ratings to conform following parameters :						-
a)	Velocities in channels not to exceed 0.6 M./Second.						-
b)	Velocities in filter outlet pipes and valves not to exceed 1 M./Second.						
c)	Velocities in interconnecting pipe and controls not to exceed 1M./Second.						
d)	Backwash with air : Not required.						1
e)	Backwash with water : Not less than 0.6 M./ Sqm. of filter bed area in filter box.						
23)	Free board for all units not less than 300 mm						
23)	Rates as above include all taxes, octroi and duties which would be specific to the site locations.						-
	Package Water Treatment Plant		Rs. In La	khs			1
1)	21 Cum/Hr. (0.50 MLD)	Each	38.70	11.96			1
2)	34 Cum/Hr. (0.80 MLD)	Each	47.92	14.35			1
3)	42 Cum/Hr. (1.00 MLD)	Each	54.02	16.17			1

Sr. No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs.) 2024-25	
4)	63 Cum/Hr. (1.50 MLD)	Each	67.67	20.31		
5)	83 Cum/Hr. (2.00 MLD)	Each	80.14	24.15		and and and and and and and and and and
6)	125 Cum/Hr. (3.00 MLD)	Each	102.60	31.08		
	Note : Depending upon the capacity required for the scheme, one of the above capacities should be chosen.					and the second Products
	Sewage Treatment Plant (STP)					1
4A	Designing (aesthetically), providing, constructing and giving satisfactory trials of <u>modernised Sewage</u> <u>Treatment Plant</u> consisting of receiving chamber, screen chamber, grit chamber, measuring flume, distribution chamber with primary and secondary treatment, etc. as detailed below, administration block of suitable size including allied units for waste disposal with all civil and mechanical works involved, etc. complete (turn key job).			C	N	
	Primary treatment - with extended				1	
	<u>sludge drying beds</u>		0	1	V	
	Rates		Rs. In La			
1)	Upto 10 MLD	MLD	67.44	26.49		
2)	Cost of 10 MLD plant	Job	674.38	264.90		
3)	Add for capacity above 10 MLD upto 20 MLD	MLD	58.96	23.14		
4)	Cost of 20 MLD plant	Job	1263.99	496.27		
5)	Add for capacity above 20 MLD	MLD	50.52	19.90		
6)	Cost of 50 MLD plant	Job	2779.46	1093.22		4
7)	Add for capacity above 50 MLD	MLD	38.18	14.17		_
8)	Cost of 100 MLD plant	Job	4688.25	1801.48		4
4B	Designing (aesthetically), providing, constructing and giving satisfactory hydraulic testing, commissioning and giving satisfactory trials of <u>modernised Sewage</u> <u>Treatment Plant</u> consisting of inlet chamber, screen chamber, detritus tanks, parshall flume, primary settling tanks, aeration tanks, secondary settling tanks, sludge sump and pump house, sludge thickener, primary digester, secondary digester, SST sump and pump house, chlorine contact tank, chlorinators, chlorinator room, sump cum blending tank, PST sludge sump cum blending tank, pump house, sludge centrifuge, gas holder, necessary piping work with required valves, gates, drains, pathways, administrative building cum laboratory, laboratory equipments, tools and plants, spare parts, etc. complete as turnkey job with all involved civil, electrical and mechanical works inclusive of following items, units as per detailed specification for civil, electrical and mechanical components with all duties and taxes, etc. complete.					
	Inlet Chamber. Designing, providing and constructing RCC (M-300) inlet chamber designed for the peak flow 2 DWF including necessary excavation in all types of strata including walkway around the periphery. Each compartment will have phosphor bronze, steel gate with extension rod, head stock, operating wheel, G.I. pipe railing, etc. The work includes providing and making necessary arrangements to connect the flow to screen chamber by approach channel as directed and as per specifications.					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
	Screen Chambers Designing, providing, constructing, testing and commissioning screen chamber designed for average 1 DWF and maximum 2 DWF in RCC (M-300) including inlet pipe/ channel from inlet chamber, outlet pipe/ channel to detritus tank, free board of 0.50 M minimum, RCC walkway 1.2 M wide with G.I. pipe railing, RCC staircase of 1.2 M width from GL to screen chamber.				
	Detritus Tank Designing, providing and constructing continuously grit removal type of detritus tank, mechanically operated in RCC (M-300) capable of removing 100%, 0.20 mm size particle and above, having specific gravity 2.30 designed for one peak 2 DWF with suitable arrangement of separation of grit from putrescible solids including providing and making necessary arrangement of JB-1 inlet and outlet channel of required sizes as may be required to connect the flow to parshall flume, etc. complete including hydraulic testing for water tightness of the structure having minimum free board of 0.30 M washout arrangement to grit chamber and platform 1.20 M wide RCC walkway with G.I. pipe hand railing shall be provided. A pit for collecting grit conveyed by conveyor shall be provided It should be suitable to handle the grit for carting. All arrangements shall be as per detailed specifications and as directed.		22	24	
	Parshall Flume Designing, providing and constructing parshall flume channel in RCC (M-300) for measuring quantity of sewage received at the treatment works, max. flow of 2 DWF and minimum flow of % DWF including providing and making necessary arrangement of approach channel as may be required to connect the flow having minimum velocity of 0.3 M per second to distribution box (DB-1). The unit shall be provided with walkway and RCC staircase having width of 1.20 M each etc. complete, including hydraulic testing for watertightness of the civil structure having free board of 0.6 M including electrically operated, flow indicating and flow integrating devices having a standby of float operated ROF meter. All arrangements as per specifications.	L			
	Primary Settling Tanks with Equipments . Designing, providing, constructing and hydraulic testing in RCC (M-300) watertight primary settling tanks of 1 DWF capacity with feed chamber, sludge and effluent chamber, base adequately supported, providing 1.20 M wide clear peripheral and approach walkway inter connecting C.I. double flanged pipes from feed chamber of the clarifier distribution well, grouting wherever necessary, including foundation, etc. as per specifications, water depth at outer side shall be minimum 3.0 M, weir loading shall not be greater than 125 cum, DWF for average flow, bottom slope shall be 1:12.				

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
10.	The floor of clarifier shall have 40 mm thick (min.)screed course of cement grout of mix in CM 1:2 detention period shall be 2.25 hrs. dispersion box and stiffened weir plate made of mild steel plate not less than 8 mm thick, anticorrosive epoxy paint on both faces shall be provided. Minimum free board of 0.50 M be provided. It includes inlet pipe from distribution chamber, central shaft, inlet baffle, outlet chamber, scum remover, skimming device, scum chamber, connecting channel from PST, outlet chamber to DB-2 as per detailed specifications.						
	Aeration Tank (AT) Designing, providing and constructing in RCC mix (M- 300) aeration tank in compartments to handle combined flow of 1 DWF incoming flow and recirculation flow including construction of inlet, outlet and distribution chamber DB-3 and providing 1.20 m wide clear peripheral approach walkways, expansion joints wherever necessary, including foundation, etc. as per specifications. Peak factor shall be 2, F/M ratio shall be 0.40, low speed aerator speed between 20 to 100 RPM, recirculation flow @50% and free board 0.60 m depth, (SWD) 3.50 M minimum, D.O. level at A.T. 2 mg/lit, MLVSS concentration shall be 2500 mg/lit and MLVSS concentration shall be 2000 mg/lit, HRT shall be 4 to 6 hours and STR 6-8 days.		J.	5	2		
	It should have compartments for washing, oxygen transfer capacity of mechanical aerator shall not be less than 1.5 kg/KWH, BOD of effluent 20 mg/lit with input to aerator 0.15 to 0.30 KWH/1000 cum of aeration tank. All related works shall be as per detailed specifications.	V	2				
	Secondary Settling Tanks with Equipments Designing, providing and constructing in RCC (M-300) water tight secondary settling tank having detention period 2 hours and SWD shall be 4.20 M. The effluent BOD & SS from the secondary clarifier shall not be more than 20 Mg/lit and 30 Mg/lit respectively. It should be hydraulically tested, bottom floor slope of 1:12 and free board of 0.60 M minimum. Dispersion box shall be made of mild steel plate not less than 8 mm thick with anticorrosive epoxy paint from both faces and well stiffened. The sewage admitted at the centre flowing upward and outward towards periphery be slowly and continuously collected towards a convenient discharge point near centre by a rotating wheel arm. The clarifier will be completed with end drive half rotating bridge, structural steel rake, overflow weir, walkway diffuser, over load alarms, having push buttons, starters for the clarifier, walkway and the suitable sludge withdrawing arrangement with flush valve capable of withdrawing floor shall have 40 mm thickness (minimum), screed course of cement grout of mix 1 cement : 2 sand, rotating sludge scrapper mechanism fitted with squeezes including providing and making necessary arrangement to connect the flow to outlet chamber (DB- 4) then the gravity mains for final disposal and as per detailed specifications and obligatory provision. All other arrangements shall be as per detailed specifications.						

Sr. No.	Description	Unit	Rate (Rs.) 2023-	24 Rate (Rs	.) 2024-25]
	Sludge Thickener with Equipments Designing, providing and constructing watertight of sludge thickener (gravity type) including foundation in RCC (M300) with inlet and outlet chamber influent well, inlet and outlet pipes, with sludge pit and sludge removal arrangement, grouting wherever necessary with walkway all around of 1.20 M width G.I. pipe railing interconnecting CI pipes all complete as per specifications, detention time 24 hours. SWD shall be 4.25 metre with necessary fixed bridge scraper arrangement as per detailed specifications and necessary inlet and outlet arrangement. All other arrangement as per detailed specifications.					
	Primary Digester with Mixer Equipment (Fixed Cover) Designing, providing and constructing unit of watertight and gastight primary digester suitable for 1 DWF plant and complete with pipe gallery, building, staircase for access from dome of digester into inside staircase, walkways at springing levels, etc. walls and base slab being in RCC (M-300), domes in structural concrete including providing burners and civil works for gas collection, grouting wherever necessary, etc. complete as per specifications. It should be designed for min 9°C and max. 45°C and minimum detention time of 30 days, water depth shall not be more than 8.5 M, free board shall be 0.6 M with inlet and outlet arrangement of C.1. flanged pipes including giving hydraulic testing and airtightness testing. The item includes providing works for collecting gas and gas burner	2	32	2		
	as per specifications. Secondary Digester with Equipment (Fixed Cover) Designing, providing and constructing including foundation unit of watertight and gastight secondary digester to deal with 1 DWF complete with pipe gallery, building, staircase for access from dome of digester into inside, staircase to walkways at springing levels, etc. Walls and base slab and domes being in RCC M-300, providing arrangement for digested sludge from digesters to centrifuge, providing burners and civil works for gas collection grouting wherever necessary, etc. complete as per specifications and obligatory provision. All other arrangements as per detailed specifications. S.S.T. Sump and Pump House with Recirculation Pumps and Sludge Pumps to Digester Designing, providing and constructing sump and pump house of requisite capacity with ceiling height not less than 6 M sludge stream for					
	ceiling height not less than 6 M, sludge stream for recirculation to aeration tank and excess sludge to SCBT, including C.I. piping to carry this flow to sump as per detailed specification and as directed by Engineer-in-charge.					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
	Chlorine Contact Tank Designing, providing and constructing chlorine contact chamber of adequate capacity to deal with 1 DWF average flow. The chlorine contact tank should be of 30 minutes capacity during average flow to achieve 99.99% coliform reduction. Chlorine dose shall be maintained as per standard provisions including designing, providing and constructing water supply arrangement for chlorination including providing dewatering and bypass arrangements, jointing to final effluent main and outlet weir, etc. complete. The effluent quality should match with the standards laid down by Maharashtra Water Pollution Control Board and as per the obligatory provisions and detailed specifications and as directed by Engineer-in- charde. Chlorinator and Chlorinator Room / Tonner Room Designing, providing and constructing chlorinators, vacuum type 2 nos. each having capacity of 10 Kg/hr as per obligatory provisions and detailed specifications with necessary provision of chlorinator room having floor area not less than 30 sqm including automatic residual chlorine controller with actuator and residual chlorine analyser including cost of chlorine cylinder, piping, valves, measuring and controlling equipments, safety devices, lifting equipments, etc. complete as per 1.S10553 (Part II) 1982. The tonner room should have 3 MT capacity crane for loading and unloading facility. Tonner storage should distinctly isolated and should be for minimum 10 tonners space and arrangements as per gas laws 1981 and factory act shall be provided and all other matching amenities be provided, 5 MT gantry shall be provided for full length of tonner room at 6 M height from floor level, with outlet chamber and treated effluent outlet channel, etc. complete as per detailed specifications.	2	22		
4	Sump cum Blending Tank (SCBT) Designing, providing and constructing sump cum blending tank of appropriate size and detention time with free board of 0.60 M. The slope of floor 1:4 with suction pit at the centre as per detailed specifications and obligatory requirements. P.S.T. Sump cum Blending Tank, Pump House with Recirculation Pumps Designing, providing and constructing pump				
	house of appropriate size with pumps, ceiling height minimum 6 M over the circular sump for discharging the sludge to thickener and recycling of flow for blending with C.I. piping, etc. complete as per detailed specifications.				

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs	.) 2024-25]
	Sludge Centrifuge Room with Centrifuges Designing, providing, constructing and installing including foundation, etc. sludge centrifuge to handle the sludge flow of one day in one hour per unit with sludge dewatering unit, drain, etc. complete as per specifications, sludge centrifuge with all necessary arrangements as per detailed specifications mentioned in Volume-II and Volume-III of tender and obligatory provisions, be provided with satisfactory functioning.						
	Gas Holder Designing, providing and constructing gas holder having gas collection system, gas flow meter and gas burner with floating dome arrangement and storage time 6 hrs. to be constructed in M-300 having appropriate diameter as per detailed specifications and obligatory provisions. The floating dome shall be of 8 mm thick M.S. plate minimum and shall be provided with two coats of anti- corrosive epoxy coating from both faces.			9	2		
	Outfall Sewer Designing, providing and constructing appropriate outfall sewer of RCC NP-2 pipe to discharge treated effluent, untreated effluent from outlet chamber (after basin / chlorination tank) to the local nalla at a point shown on the drawing including necessary chambers for inspection / cleaning including necessary excavation , dewatering, refilling, concrete encasing/ bedding concrete steps to reach the nalla bed level, pitching and energy dissipation chamber in the nalla portion, etc. complete upto 50 M length RCC NP-2 pipeline and including all above items.	2	3	b			
	Piping Work in CI 'LA' class including Sluice Valve, Reflux Valve, M.S. Gate Providing, laying and jointing pipes other than those already included in the above items for interconnection bypass drains, etc. of all units including adequate numbers of manhole chambers. The item includes excavations, refilling and hydraulic testing of pipes, valves, gates, accessories and cost of jointing materials. The item includes required channels with gates for interconnection of units, bypass drains, etc. for all units and as directed, etc. complete as per detailed specifications.						
•	Administrative Building cum Laboratory (G+1) Designing, providing and constructing administrative building, office cum labo rat o ry including stores. This shall be a building having appropriate carpet area at ground floor and at first floor complete as per specifications including necessary excavation, foundation in RCC M-200 framed structure, BB masonry (IInd class in CM 1:6) 20 mm cement plaster in CM 1:3 inside and outside painting, aluminium door and window with glass panels, mosaic tile flooring and skirting and all other allied items, fixtures, fastening electrification arrangements, water supply arrangement, etc. complete. The building will have laboratory on upper floor of administrative building and should be so centralised that it should not be attached with any unit but should have complete control of every unit as per laboratory equipment, beautification, telephone and intercom arrangement and wireless system.						

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25
	Primary and secondary treatment-with digesters,	1				
	sludge drying beds, etc. complete.		De la la	lub a		
	Rates		Rs. In La			
1)	Upto 10 MLD	MLD	80.58	31.89		
2)	Cost of 10 MLD plant	Job	805.77	318.85		
3)	Add for capacity above 10 MLD upto 20 MLD	MLD	70.49	27.97		
4)	Cost of 20 MLD plant	Job	1510.67	598.51		
5)	Add for capacity above 20 MLD	MLD	60.78	23.91		
6)	Cost of 50 MLD plant	Job	3334.05	1315.83		
7)	Add for capacity above 50 MLD	MLD	45.57	17.98	- A	
8)	Cost of 100 MLD plant	Job	5612.42	2214.92		
	Integrated Wetland Technology (IWT) BASED			-		þ.
5	SEWAGE TREATMENT PLANT			- 10	1.7	
	Designing, providing, constructing, hydraulic testing, commissioning and giving satisfactory trials of		0	1	V	
	Integrated Wetland Technology (IWT) based Sewage					
	Treatment Plant (STP) consisting of Screen chamber, Oil & Grease trap, RCC Primary treatment tanks (including		()	<u> </u>		
	manholes, vent pipes and graded gravel media) and	1	$\leq 1/$			
	RCC Secondary treatment tanks (SBBR) (including gravel	_ \	N			
	media, PVC sheets, wetland plants, plastic mesh, etc. as required.) tank, RCC intermediate and treated water		$\mathbf{\mathcal{O}}$			
	tank, sludge recirculation pump and pipe network,		A			
	room for tertiary treatment unit, E&M works for tertiary					
	treatment including associated piping work, internal					
	pathways, wire fencing, etc. complete as turnkey job	÷				
	with all involved civil, electrical and mechanical works					
	inclusive of following items, units as per detailed					
	specifications for civil, electrical and mechanical					
	components with all duties and taxes, etc. complete as					
	directed by Engineer-In-charge. Allied structure shall be constructed as per the provision in appropriate and					
	relevant standards and design guidelines of respective					
	authorities. RCC and civil works will be as directed by					
	Engineer-in-charge. Sewage Treatment Plant (STP) to be					
	designed to treat the row water sewage with the					
	characteristics in table number <u>"A"</u> to produce the					
	treated sewage with characteristics as mentioned in					
-0	table number <u>"B"</u>					
Α						
	Raw Sewage Characteristics					
	Temperature - Ambient					
	pH - 5.5-9.0					
	$BOD_5 - 300 \text{ mg/L}$					
	COD - 600 mg/L					
	TSS -500 mg/L Total N : 50 mg/L					
	Total P : 15 mg/L					
	Faecal Coliform (MPN) : 10^6- 10^7					
В	Treated Water Characteristics					

Sr. No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs	.) 2024-25]
	рН - 6.5-8.0						
	BOD ₅ < 10 mg/L						(and)
	COD - 40 mg/L						
	TSS < 20 mg/L						and the leeven Product
	Total N < 5 mg/L						1
	Total P <1 mg/L						1
	Faecal Coliform (MPN) < 10 mg/lt						-
	Note: If raw sewage characteristics observed as per test are more critical than the mentioned in description (Table A) same shall be used for the design of Sewage Treatment Plant (STP), otherwise row sewage characteristics mentioned (Table A) shall be used.				, D		
П	FOLLOWING COMPONENTS ARE INCLUDED	Compoi	nents				
<u> </u>	1. SCREEN CHAMBER: Screening is a unit operation that	Compoi		1	\overline{V}		1
	separates large floating materials in and/or on water found in different and/or on water (found in different sizes) from water and from entering wastewater treatment facilities and mains. The unit known as a screen chamber	1 Nos.	Ĵ	5			
	2. Oil and Grease Trap Designing, providing and constructing manual type Oil &Grease removal mechanism in RCC (M-300) capable of removing grease, oil and scum including providing and making necessary arrangements. Removal will be done manually and stored in a tank for defined period after which it will be disposed to appropriate disposal facility. Inlet and outlet channels of required sizes as make be required to connect the flow to connecting unit, etc. complete including hydraulic testing for water tightness of structure having adequate Free Board, and platform. All arrangements shall be as detailed specifications and as directed by Engineering in Charge.	1 Nos.	2				
•	3. Primary Treatment Tank Designing, providing, constructing and hydraulic testing in RCC (M-300) watertight underground primary treatment tanks (including PSRT, SABR, BSF). Designs as per the drawings given by IWT technology provider. Design will consider the average flow, the 2 DWF and the peak flow. Tank will be covered and PVC vent pipes having sand and activated carbon (as per details and design provided by technology provider) will be installed to prevent odour. 0.5% of horizontal slope is provided in the tank for the collection of sludge. Minimum free board of 0.3m is provided. It includes providing all necessary items such as gravel media, piping, valves, joints, launder, baffling, etc. as shown in drawings & additional items will be as directed by Engineering in Charge.	1 Nos.					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	7
	4.Static Bed Biofilm Reactor (SBBR) Designing, providing, constructing and hydraulic testing in RCC (M-300) watertight underground secondary treatment tanks (SBBR). 0.5% of horizontal slope is provided in the tank for the collection and recirculation of sludge. Designs as per the drawings given by IWT technology provider. Design will consider the average flow, the 2 DWF and the peak flow. Wetland plants will be planted on gravel media (as per designed by IWT technology provider). In the open recirculation sections a combination of Bottom screen, MS mesh, PVC sheet, plastic mesh will be provided to support Wetland plants. Minimum free board of 0.3m is provided. It includes providing all necessary items such as gravel media, piping, valves, joints, launder, baffling, structural steel work, bottom screens, grill work, pvc sheet, plastic mesh, wetland plants etc. as shown in drawings and additional items will be as directed by Engineering in Charge.	1 Nos.		2	
	5. Intermediate and Treated Water Tank Designing, providing, constructing and hydraulic testing in RCC (M-300) watertight underground tank acting as a feed tank for tertiary treatment avoiding backflows. Designs as per the drawings given by IWT technology provider. Design will consider the average flow, the 2 DWF and the peak flow. Tank will be covered. It includes providing all necessary items such as piping, valves, joints etc. as shown in drawings & additional items will be as directed by Engineering in Charge.	1 Nos.	S		
*	6. Tertiary Treatment Unit Designing, providing, installing and hydraulic testing of feed pump, activated carbon filter vessel with required sand and required activated carbon quantities, hypo dosing tank, dosing pump, necessary piping, pumps, joints, electrical cables, connections etc. complete. It also includes trail and run of tertiary treatment unit. After dosing contact time of 30 min allows 99.99% reduction of outstanding fecal coliform. Chlorine dosage will be as per standard requirement of 5- 10ppm. to match effluent quality as mentioned in table number <u>"B"</u> . The Unit as per designed and approved by technology provider.	1 Nos.			
	7. Treated Water Outfalls Designing, providing, constructing appropriate outfall sewer of RCC NP Class -III pipe to discharge treated effluent, untreated effluent from bypass chambers to the local Nallah at the point shown on the drawing including necessary chambers for inspection and cleaning including excavation, dewatering, refilling, concrete, encasing / bedding concrete to the local Nallah at the point shown on the drawing including necessary chambers for inspection and cleaning including excavation, dewatering, refilling, concrete, bedding concrete, encasing / bedding concrete	1 Nos.			

Sr. No.	Description	Unit	Rate (Rs.) 2023	3-24 Rate (R	s.) 2024-25]
	8. Block Diagram Integrated Wetland Technology (IWT)					ती लग
						(star)
		PSAT				to a secon trans
	IDF DF INCOV	-				
	PSRT: Primary Solid Removal Tank		6			4
	BSF: Bio Sequential Filtration RAS: Return activated sludge		HCDT: Hypo chloride D DP: Dosing Pump	iosing Tank		1
	SBBR: Static Bed Biofilm Reactor		ACF: Activated carbon	Filter		1
Ш	PRICE SCHEDULE			- A -		1
	Capacity of the Plant in MLD Area Requirement in Sqm	Unit	Amount in (Rs.)	· ·		
	0.050 MLD 110	Job	2911110	1.		1
	Add capacity above 0.050 MLD to 0.100 MLD	Litre	35.85			4
	0.10 MLD 250	Job	4703666			1
	Add capacity above 0.10 MLD to 0.25 MLD	Litre	32.26			
	0.25 MLD 630	Job	9542049]
	Add capacity above 0.25 MLD to 0.50 MLD	Litre	28.28			
	0.50 MLD 1100	Job	16611342			
	Add capacity above 0.5 MLD to 1 MLD	Litre	27.53			1
	1.00 MLD 2090	Job	30376203			1
	Add capacity above 1 MLD to 2 MLD		27.02			1
		Litre	57395250			4
	2.00 MLD 4040	Job	26.51			-
	Add capacity above 2 MLD to 3 MLD	Litre				1
	3.00 MLD 5990	Job	83905173			1
	Add capacity above 3 MLD to 5 MLD	Litre	26.30			1
	5.00 MLD and Above 9950	Job	136514884			
						4
1	NOTES Screen chamber and O and G trap are of manual type					-
2	Sodium hypochlorite dosing is adopted					1
3	Dedicated sludge management is not provided as it is required every 12 to 18 months basis cycle from Primary Removal Tank (PSRT) and Static Bed Biofilm Reactor (SABR)					
4	Sludge will be removed from the Sewage Treatment Plant (STP) and will be disposed according to stakeholders general practice to nearest Fecal Sewage Treatment Plant (FSTP) or as per standard guidelines. Provision of sludge drying beds are not considered in IWT scope. If sludge drying bed are to be provided then it shall be the additional cost to the Integrated Wetland Technology (IWT) Sewage Treatment Plant (STP)					

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs	.) 2024-25	
5	No separate Independent laboratory and administrative building required. As tertiary treatment room is provided which is large enough to accommodate required manpower, storage and instruments						
6	Site clearance, wire fencing to the boundary of Sewage Treatment Plant (STP) is included in scope of work						
7	All water retaining structures are in M30. grade of concrete						
8	Water table is considered 5m below Finish Ground Level (FGL) for design						
9	Soil bearing capacity is considered as 20 T/m ² at 1.5m below from Ground Level (GL)			-	N.D.		
10	Grade of cement used is OPC 43 grade. (Contractor can use higher grade).				V		
11	Grade of steel is used as Fe 500		C	6	т. Т		1
12	Peak factor considered in design of STP as per CPHEEO manual guideline		0	0			
13	Hypo dosing material and required manpower during trial run (90days) and commissioning is considered in scope of work	5	50				
14	Water and power during construction, trial run and commissioning shall be provided by client/ local body	l	*				
15	Power available near STP is assumed to be LT power supply						
16	All Integrated Wetland Technology (IWT) designs will be provided by IWT Technology provider						
17	Defect liability period shall be of 5 years to the contractor						
18	Maintenance and repair work of IWT shall be responsibility of the contractor and technology provider combine						
IV	Equipments of following make shall be used						
S. N.	Description				ake		
1	Centrifugal Pumps		Kirloskar, John MJP APPROVE	D MAKE			
2	Dosing pumps		Milton Roy pu				
3	Screens		To be fabricate	•	07.1		
4	Cables		Finolex, Polyca	-			
5	Plastic mesh and plastic tie lock		General stand				
6	PVC Sheet		General stand			-	ł
7	Valves		Intervalve, BD	-			
8	Gravel media		As per design a			inology	ł
9	Pipes		As per MJP ap		0		ł
10	Canna India Plants		Variegated car	•			
11	Tertiary Unit		AS per standar technology pro	ovider	•		
12	Bio Culture and Growth Hormone		AS per standar technology pro	•	tion and sup	plied by	

).		[Description			Unit	Rate (Rs.)	2023-24	Rate (Rs	s.) 2024-25]
	Ozone Base	d High Pure	Oxygen Tre	atment Sv	/stem						1
	(HPO):		,								विश्वित ह
	Designing, p commission Based High consisting o generation recirculation Dosing Syst associated i associated i involved ele following it civil work, N	ning and givi Pure Oxygeu of Rotary air plant, Ozone n pumps, Po em, OFF Col nstrumenta biping & valve ectro- mecha ems as per t ACC Panel, t G UNITS ARE	stalling, hyd ng satisfacto n Treatment compressor, e generation wer Supply I lection & Dif tion and con ves, etc. with anical works he specificat axes & dutie EINCLUDED: ressor:	ry trials of System fo Air Dryer, plant, Chi Unit (PSU) fusion Sys trol system complete inclusive of cions & exo s, etc.	f Ozone or STP , Oxygen Iller with , Ozone tem, n, e work of				, D		
		0.	stalling, test	0							
	associated p are simply r capable of r operating p The main ac compressor continuousl pressure an	oping & valv otary positiv high speed o ressures and dvantage of ' is that it can y with minin d generates	y Screw Con ves. Rotary s ve displacem peration ove d flow rates a using rotary n supply con num fluctua less heat th	crew air co lent mach er a wide r at high effi screw air npresses a tion in del	ompressor ines, ange of iciencies. ir ivery	5	S	b	v		
		's which cau	ses energy e	fficiencv.			· · · · · · · · · · · · · · · · · · ·				
			ses energy e		od and	V					_
	The technol	logy design a	& details as p		ed and						-
	The technol approved b	logy design a y technolog	& details as p	per provid							
	The technol approved b	logy design a y technolog andards: As	& details as p gy provider. per manufa	ber provid							-
	The technol approved b	logy design a y technolog andards: As	& details as p gy provider.	ber provid							-
	The technol approved b	ogy design a y technolog andards: As Air Compre Quantity	& details as p gy provider. per manufa	ber provid	ndard Head						-
	The technol approved b Codes & Sta Ozonator	logy design a y technolog andards: As Air Compre Quantity	& details as p gy provider. per manufa	per provid cturer star cations Capacity	ndard Head						-
	The technol approved b Codes & Sta Ozonator	ogy design a y technolog andards: As Air Compre Quantity	& details as p gy provider. per manufa essor Specific	per provid cturer star cations Capacity	ndard Head						-
	The technol approved b Codes & Sta Ozonator Capacity ↓	ogy design a y technolog andards: As Air Compre Quantity (No's) 2 Nos.	& details as p gy provider. per manufa essor Specific	cer provide cturer stat cations Capacity (Nm3/hr) Approx	ndard Head						
<i>M</i>	The technol approved b Codes & Sta Ozonator Capacity ↓ 1 kg/hr	ogy design a y technolog andards: As Air Compre Quantity (No's) 2 Nos. (1W+1S) 2 Nos.	& details as p gy provider. per manufa essor Specific	cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818	ndard Head						
<i>A</i>	The technol approved b Codes & Sta Ozonator Capacity ↓ 1 kg/hr 5 kg/hr	ogy design a y technolog andards: As Air Compre Quantity (No's) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos.	& details as p gy provider. per manufa essor Specific Type	cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818	ndard Head						
<i><i>w</i></i>	The technol approved by Codes & Sta Ozonator Capacity ↓ 1 kg/hr 5 kg/hr 6 kg/hr	ogy design 8 y technolog andards: As Air Compre Quantity (No's) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos.	& details as p gy provider. per manufa essor Specific Type	cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818 Approx	ndard Head						
	The technol approved b Codes & Sta Ozonator Capacity ↓ 1 kg/hr 5 kg/hr 6 kg/hr 10 kg/hr	ogy design a y technolog andards: As Air Compre Quantity (No's) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos.	& details as p gy provider. per manufa essor Specific Type	cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818 Approx 1362 Approx	ndard Head (kg/cm2)						
	The technol approved b Codes & Sta Ozonator Capacity ↓ 1 kg/hr 5 kg/hr 6 kg/hr 10 kg/hr 11 kg/hr	ogy design 8 y technolog andards: As Quantity (No's) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos.	& details as p gy provider. per manufa essor Specific Type	cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818 Approx 1362 Approx 1362 Approx 1362 Approx 1362 Approx	ndard Head (kg/cm2)						
	The technol approved b Codes & Sta Ozonator Capacity ↓ 1 kg/hr 5 kg/hr 6 kg/hr 10 kg/hr 11 kg/hr 15 kg/hr	ogy design 8 y technolog andards: As Air Compre Quantity (No's) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 2 Nos. (1W+1S) 3 Nos.	& details as p gy provider. per manufa essor Specific Type	cturer stat cations Capacity (Nm3/hr) Approx 136 Approx 681 Approx 818 Approx 1362 Approx 1362 Approx 1362 Approx 1362 Approx 2045 Approx	ndard Head (kg/cm2)						

D.		C	Description		Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25	
		Class of Insulation	F							जीवन
	Motor	Supply Voltage	415 V, 3Φ,	50 Hz						
	B) Air Dryei	, ,								And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
		providing, ins	-	-						
		-	•	ociated piping &						
				sorber filled with m air is removed in						
				essed air enters the						
			•	nt has high surface						
	area and hi	gh affinity to	wards wate	r vapor.						
	The incomi	ng water vap	or gets adso	orbed on the	1					1
				dried as it travels				\mathbf{X}		
		icant absorb					6	NV	e	
				s per provided and				1		
		y technology			-			V		4
		ftandards: A		VIII Div.1 /As per		C	2	×		
	manuractu	er stanuaru			ł					4
	_	A	ir Dryer Spe	cifications	1		-			1
	Ozonator		ntity							1
	Capacity 🗸	(No	oʻs)	Туре]
	1 kg/hr		No		2					
	5 kg/hr		No							4
	6 kg/hr		No			¢				4
	10 kg/hr		No	Screw, Air cooled,	- V					4
	11 kg/hr	11	No	Lubricated						
	15 kg/hr	11	No	Lubilducu	·					1
	16 kg/hr	2 No (Both	Working)]
	20 kg/hr	2 No (Both								
		Generation P								4
	Designing,	providing,		g, testing & ation plant with						
		piping & valv		ation plant with						
				d Air enters at the						1
			-	enerator Adsorber,						
	which is fil	led with uni	que cerami	c Zeolite molecular						
			-	the Compressed Air						
	producing h	high purity O	xygen at the	top.						
	When the	producing	Dyer Adv	orber & Oxygen	1		<u> </u>			1
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		-	with moisture and						
	Nitrogen r	espectively,	the compr	essed Air feed is						
		•		r Oxygen Generator						
			-	er. The adsorbed						
	-			dsorber & moisture						
				when the adsorber to the atmosphere.						
				ween two stages;						
			•	t of dryer & Oxygen						
				Air / Oxygen while						
	other set	of Dryer &	Oxygen G	enerator adsorber						
	regenerates	s themselv		entire cycle is						
						1				
		lly controlled tention is red		ormal operation, no						

r. o.		D	escription			Unit	Rate (Rs.)	2023-24	Rate (Rs) 2024-25]
	e technol	logy design	& details a	as per pro	vided and						1
		technology		io pei pio							an an an
		bdards: ASN		Dev.I/ Ma	nufacturer						12
Sto	ł.										
											Suratbur Jeevan P
		Oxygen Gen	eration Sy								4
02	zonator			Capacity							
Ca	pacity 🦊	Quantity	y (No's)	(Nm3/hr)	Туре						
1	L kg/hr	1 N	lo	Approx 8.51							
					PSA				1		1
				Approx	based/						
5	5 kg/hr	1 N	lo	42.55	PVSA						
					(CSIR IIP			6	\mathbf{N}	P	
				Annrov	design)						-
6	6 kg/hr	1 N	lo	Approx 51.06				1.1	V		
				Approx				1			1
1	0 kg/hr	1 N	10	85.1			1.000				
1	1 kg/hr	1 N		Approx				1			1
	I Kg/III	IN	10	93.61				4			
1	5 kg/hr	1 N	lo	Approx		- (∇V				
				127.65		-	1				-
1	6 kg/hr	2 No (Both	Working)	Approx 68.08	(\sim				-
2	0 kg/hr	2 No (Both	Working)	Approx 85.1	-	V					
	Oxvgen G	eneration Sy	stem Com		ifications						1
H	oxygen e	Purity				6					-
		(By vol.)		93% ± 1%							1
C	Dxygen	<u> </u>									1
Ge	eneratio	Dew Point	-5	0 °C to - 60)°C						
n	System			~							4
		Predessica		0 °C to - 60	۱°C						
		nt Filtration	-5	0 C 10 - 60							
		Predessica									1
		nt Filter									
	13	Installation									
\vdash	1	Туре	2 No.4	of Filters in	series						1
-		~	2 110 (1 301103						1
	11	Filtration									
	-	Rating for		9% - 1 Micr	on						
		Oxygen/dri ed air									
		eu ali	98	% - 0.3 mic	cron						
		Installation	2 No (of Filters in	series						
		Туре	2 10 0		1361165						1
D)	Ozone Ge	eneration Pla	ant :]
De	signing,	providing,	installir	ng, testi	ng &						1
		ing of ozone									
		ration unit is									
sup		This design									
	concont	ration, very l	ow specific	power co	nsumption			1			
gas		ne gas con			اامىلىمە						

Sr. Io.		C	escription		Unit	Rate (Rs.)	2023-24	Rate (Rs.	.) 2024-25]
νU.	The design	of ozone ge	nerating element pro	vides low						4
			igh dielectric breakdo							an an and
	of safety. T	he ozone g	enerating elements	consist of						12
	discrete sp	ecialized gl	ass tubes (dielectric	c) and a						(I at
	discrete st	ainless ste	el high voltage e	lectrode.						and the second second
	Centering d	evices of th	e dielectrics and HV-	Electrodes						
	creating tw	o discharge	rooms (spaces) for t	the ozone						
	generation	while allowi	ng gas to flow on bot	th sides of						
	the tube.									
	For long-ter	m reliability	the dielectrics opera	te max. at						
	10% of the	dielectric b	oreakdown voltage ra	ating. This						
		•	of periodic dielectr							
	during ozon	e productio	n, saving on system o	downtime,						
		e and spares								1
			II fulfill the requirer					. I X		
	-		ms used in water t				6	γV	P	
	-		Industrial Standar				- N.	1.4		
		• •	(e.g., pressure vessel	s) and the						
			ng IS standards.	l norte 0			1	V		-
	•		shall be used for a	•			5			
	•	•	int that come in cor	itact with		\sim				
	ozone gases		naterial shall be cont	firming to						-
			1.4571 equivalent to	-	1	≤ 1				
			rator as per DIN19627			NV				
			sure proof up to 6 ba		10					-
			nsate water. Indirect							
	-		led borosilicate glas	·	1.1	6				
			nerated tensions. Al							
		-	e gases shall be made							
	Viton.	U			÷					
										1
	Dielectric g	lass tube:		1						
	Material:	Borosilicate	glass (specially fo	r ozone						1
	generation)		6-4							
	Type: Cylind	drical open a	t both end							
	Dielectric ga									1
			annular gap betw							
			ic maintained at 0.5	5 mm by						
	centering de	evice made u	up of Teflon.							-
										4
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec	de construc								-
	-	construction		m tuboc						-
			e given to Aluminiu I 17007 - Part 4 thro							
			using properties (over							
			idard in order to prot							
	load.									
	Type : Cylin	drical								-
			ter inlet & outlet con	nection of						1
	-	•	be of SS 316 Ti wher							
		0	on should also be of							
			& details as per pro							
		y technology								
]
		Ozone Ge	neration System Spec	ifications]
	Ozonator	Ozone	Ozone Electrode							
	Capacity \downarrow	Electrode	Configuration	Model						
		Qty.								4
	1 kg/hr	1 Unit		1K						1
	5 kg/hr	1 Unit		5K				1		1

r. lo.		[Description			Unit	Rate (Rs.)) 2023-24	Rate (Rs	s.) 2024-25]
э.	6 kg/hr	1 Unit			6K						4
			Single Ele	ctrode at							Chiller D
	10 kg/hr	1 Unit		apacity	10K						15
	11 kg/hr	1 Unit			11K						
	15 kg/hr	1 Unit			15K						allow Jees an Pro
	16 kg/hr	2 Unit	Two Elec	trode X	16K						
	20 kg/hr	2 Unit	50% Ca	pacity	20K						
	Ozone Gen	eration Syste	em Commo	n Specifica	ations						
	Concentrat	ion of	9 % ± 1% (art ()art)							
	Ozone		5 /0 1 1/0 (
	ΔT across C	-									
	water of Oz	one	min 5 - ma	x 6 °C							
	Electrode								-		-
	MOC of Ozo Electrode	one	SS 316 Ti (as per DIN	19627)						
	0		Water coo	led pressu	re proof					÷	1
	Cooling arra	angement	up to 6 bai						1.1		
		MOG	Specialty b	orosilicate	e Glass for				12		1
		мос	ozone					1	V		
	Dielectric	Size	ID - Approx	k 9 mm				L	5		
		5120	OD - Appro	ox 12 mm :	± 0.2 mm						
	Voltage &	Supply	415 V, 3Φ,	50 Hz.				1			
	Frequency		3000 - 100		100 - 1400		1	4			
	E) Chiller wi	ith Recircula	tion Pumps			6		/			
	Designing,	providing,	installin	g, testi	ng &	- V					
	0 0.	ing of Chille		0.	0						
		piping & valv									
		l of excess					P				
		from ozone									
	-	sor, cooler,									
		ter, pump, o									
		g, electrical									
	ΔT 5 - 6°C.										
	The testers		0	-							4
		logy design		is per pro	vided and						
	approved b	y technolog	y provider.								-
	Pocirculatin	g Cooling W	lator Qualit								-
		rating Press		y 1 – 2 ba	ar (g)						-
	Iron	in a tring FI CSS	=	< 0.2 mg/							-
	Manganese	11	=		mg/L						1
	Chlorides	1		50 mg/L				+			-
	pH	1		6 - 8							1
	Hardness	-		10 mg/L							1
1	Conductivit	v	=		μs/cm						1
		, andards: As						1			1
										1	1
	0	Wa	ter Chiller S	pecificatio	ons						1
	Ozonator Capacity ↓		y (No's)	Capacity							1
			-	(TR) Approx							-
	1 kg/hr	1 No w	orking	3 TR							
					Reciproca						
					ting/						
				Ι.	Scroll						
	5 kg/hr	1 No w	orking	Approx	Hermetic						
		1	0	15 TR				1		1	1
					a-iiy						
					a-lly sealed,						

Sr.		Description			Unit	Rate (Rs.)	2023-24	Rate (Rs.	.) 2024-25]
No.			Approx							4
	6 kg/hr	1 No working	20 TR							an at MIT MIL
	10 kg/hr	1 No working	Approx 30 TR							(f)]
	11 kg/hr	1 No working	Approx 30 TR							and Arevan Press
	15 kg/hr	1 No working	Approx							1
	16 kg/hr	2 No (Both Working)	50 TR Approx							-
	20 kg/hr	2 No (Both Working)	30 TR Approx							1
	- 8,		30 TR							4
	Ozonator	Water Quanti Quantity Required	Inlet	a I				- th.		-
	Capacity 🗸	(m3/hr)	Temp.	Quality						
	1 kg/hr	2 (min) - 4 (max)	remp.				-		6	4
	5 kg/hr	10 (min) - 20 (max)		As				1 1		4
	6 kg/hr	14 (min) - 28 (max)		mentione				12		4
			≤ 15 °C	d above				V		1
	10 kg/hr	20 (min) - 40 (max)	to 25 °C	in the		6	2.4			
	11 kg/hr	24 (min) - 48 (max)	10 25 0	table/						1
	15 kg/hr	30 (min) - 60 (max)		drinking water			1			1
	16 kg/hr	34 (min) - 68 (max)		quality		- L	1			1
	20 kg/hr	40 (min) - 80 (max)		quanty	- C		0]
		Chilled Water Reci	rculation	Pump	-	1.				1
	Ozonator	Specifica	ations							4
	Capacity 🗸	Quantity (No's)	Head (kg/cm2)	мос		p				
	1 kg/hr	2 Nos. (1W+1S)	3.5	CI all	- V.]
	5 kg/hr	2 Nos. (1W+1S)	3.5	CI all						
	6 kg/hr	2 Nos. (1W+1S)	3.5	CI all						1
	10 kg/hr	2 Nos. (1W+1S)	3.5	CI all			_			4
	11 kg/hr	2 Nos. (1W+1S)	3.5	CI all						4
	15 kg/hr	2 Nos. (1W+1S)	3.5	CI all						4
	16 kg/hr 20 kg/hr	3 Nos. (2W+1S) 3 Nos. (2W+1S)	3.5 3.5	CI all CI all						1
	_									4
	F) Power Su	ppiy Unit:								4
	Designing,	providing, installin	g, testii	ng &						
	0 0.	ing of Power Supply Ur	0.	0						
		is a state of the art,								
	converter th	at provides the most e	ffective op	eration of						
1	Ozone techr	ology. Standard design	of the Pov	ver Supply						
	Unit comes	on a base frame, which	d, in order							
	1000	mechanical stability								
		for instance power di								
		etc. It is a painted s								
		rs in order to allow mair								
		ed separately. Interlocks								
	-	operating staff by shutt								
	case of oper	ning the doors during no	innai oper	ation.			1			

	D	escription	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25]
Process Equ	lipment							1
The Power distribution up transfor phase 50/60 frequency monitoring	r Supply Ur / rectifier see mer section 0 Hz power li supply. Key of the most sure reliabil	it has a dedicated power ction, inverter section and step in order to convert the three ne into a single-phase variable interlocks and continuous important parameters of the ity and protection of the						
	Insformer Se	ction	1					1
the inverte generating functions for installed as the base a remove th convection.	er section t ozone. The or this secti- dry type wh nd covered e heat by Insulation of er than the op	brings the single-phase level of o an appropriate level for PSU performs two different on. The transformer shall be ich is completely mounted on by the enclosure in order to using normal or controlled the high voltage winding is five perating voltage. It is designed		0	5	2		
-			4					4
The power perfect pan controlled. an indepen	el system. A The control dent control	panels are designed with a l circuit breakers are overload voltage will be generated with transformer with leakage and	5	3V				
power loss		& details as per provided and		0				4
	y technology							
		er manufacturer standard						4
1			÷					-
L I	Power Supply	Units Specifications	·					
F	Power Supply Quantity							-
Power supply unit	Quantity Input	Units Specifications						-
Power	Quantity Input Supply Approvals	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved						-
Power	Quantity Input Supply	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz						
Power supply unit Control Panel (PLC	Quantity Input Supply Approvals Quantity	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W)						
Power supply unit Control Panel (PLC	Quantity Input Supply Approvals Quantity MOC Class of	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W) MS, powder coated IP 42 Quantity = 1 No. (1W) with HMI Screen						
Power supply unit Control Panel (PLC	Quantity Input Supply Approvals Quantity MOC Class of insulation Quantity Type	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W) MS, powder coated IP 42 Quantity = 1 No. (1W) with						
Power supply unit Control Panel (PLC based) PLC	Quantity Input Supply Approvals Quantity MOC Class of insulation Quantity Type HMI Screen	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W) MS, powder coated IP 42 Quantity = 1 No. (1W) with HMI Screen Non Redundant type 4.6" - 14" Colored						
Power supply unit Control Panel (PLC based) PLC	Quantity Input Supply Approvals Quantity MOC Class of insulation Quantity Type HMI Screen osing System	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W) MS, powder coated IP 42 Quantity = 1 No. (1W) with HMI Screen Non Redundant type 4.6" - 14" Colored :						
Power supply unit Control Panel (PLC based) PLC G) Ozone D Designing, commission piping & Va such part of	Quantity Input Supply Approvals Quantity MOC Class of insulation Quantity Type HMI Screen osing System providing, ing of Ozone alves. Dosing	r Units Specifications 1 No. (1W) 415 V, 3Φ, 50 Hz CE, CPRI & UL Approved 1 No. (1W) MS, powder coated IP 42 Quantity = 1 No. (1W) with HMI Screen Non Redundant type 4.6" - 14" Colored : installing, testing & Dosing System with associated systems as defined designates at mixes water with ozone gas						

Sr. No.		D	escription	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
	backflow p booster pun site. b) In case, t	prevention nps on asses the ozone ele	² Ozone resistant MOC with arrangement. With suitable sing the dosing point location at ectrode has a sufficient pressure						
	ozone gas th c) All pipeli involved in	nrough poro nes, valves, oxygen conc point shall	sure can be utilize to diffuse the us diffusers. fittings & other metallic parts centrator & ozone generator up be of suitable non-corrosive						-
	approved by	y technology	& details as per provided and provider. per manufacturer standard				~		
		zono Docina	System Specifications			-			4
	Ozone Dosing	Type	Gas diffusing in contact tank.			(Ľ		-
		MOC	RCC by Client Baffled Wall counter current with min 3 No of compartments, covered with		0	5			
	Contact tank	Туре	water spraying arrangement for foam control. Approx 6 - 10 mins for	0	31				
		HRT	disinfection & For COD/BOD removal:	1)	5				
		Liquid Depth	Approx 30 - 60 mins. Approx 4.9 - 5 m at sea level (6 m at	V					
	Diffusers	Free Board Quantity MOC	Min. 1.2 m 1 Lot UPVC / Ceramic / SS 316						-
	Venturi Injectors/ Eductors with Anti Siphon	Quantity	1 Lot						
	Loop	мос	SS 316 / SS 316 L						
	Ozone Transfer Efficiency	2	Approx 80 - 95%						
	Interconne cting Piping & Valves		1 Lot						

	D	escription		Unit	Rate (Rs.)	2023-24	Rate (Rs.	.) 2024-25]
	Collection &	Diffusion Sv	istem:						4
Designing,									a all May bit
0.01	-	-	& Diffusion System						1 5-00
	0 0		e Off Ozone/ Oxygen						
			all be collected &						1 Contraction
-			then to the aeration						Jeevan Pr
	•		all be covered type						
			ect the blower. The						
		-	the tank & transfer						
		-							
· ·	or diffusion.	covered tan	nk) at the required						
pressure ro	or alliusion.								
									4
			ion tank shall be				- Do		
			wers & transfer it to						
-		s at the re	quired pressure in			1.1			
aeration ba						- (ес,	4
			s per provided and			- P.	1.1		
<u> </u>	by technology	<u>.</u>		ļ			1		4
			cturer standard				W		4
		iffusion Sys	tem Specifications			2			4
-	Collection	Quantity	1 Lot		\frown				
	stem	2			6 1	<u> </u>			4
	Diffusion	Quantity	1 Lot	1		P			
Sy	stem	Quantity							4
		Quantity	1 No	10					4
			RCC Baffled Wall		\sim				
Pre ozoni	isation Tank	мос	counter current		(h)				
		moe	covered tank by	1.2	V				
1				10.00					1
			client	- V					
I) Measuri	ng & Monitor	ing Devices	client	~					1
Designing,	providing,	installing	client : g, testing &						-
Designing,	providing,	installing	client						-
Designing, commissio system.	providing, ning of Ozo	installing ne measur	client : g, testing & ing & monitoring						
Designing, commissio system. I) Outlet o	providing, oning of Ozo	installing ne measur each ozone-	client : g, testing & ing & monitoring generating module						-
Designing, commissio system. I) Outlet o	providing, oning of Ozo	installing ne measur each ozone-	client : g, testing & ing & monitoring						-
Designing, commissio system. I) Outlet c shall be m digital disp	providing, ning of Ozo pzone gas of o neasured by play model ir	installing ne measur each ozone- a common n gm / Nm:	client ; g, testing & ing & monitoring generating module ozone analyser, of 3 (range 0 to 200)						-
Designing, commissio system. I) Outlet o shall be n digital disp having ac	providing, ning of Ozo ozone gas of o neasured by play model ir ccuracy of 0	installing ne measur each ozone- a common n gm / Nm).1 gm/Nm	client ; g, testing & ing & monitoring generating module ozone analyser, of						
Designing, commissio system. I) Outlet c shall be n digital disp having ac ADSORPTIO	providing, ning of Ozo ozone gas of o neasured by play model ir ccuracy of 0 ON TECHNIQU	installing ne measur each ozone- a common n gm / Nm: 0.1 gm/Nm JE.	client ; g, testing & ing & monitoring generating module ozone analyser, of 3 (range 0 to 200) 3 based On UV						
Designing, commissio system. I) Outlet c shall be n digital disp having ac ADSORPTIO	providing, ning of Ozo ozone gas of o neasured by play model ir ccuracy of 0 ON TECHNIQU	installing ne measur each ozone- a common n gm / Nm: 0.1 gm/Nm JE.	client ; g, testing & ing & monitoring generating module ozone analyser, of 3 (range 0 to 200)						
Designing, commissio system. I) Outlet c shall be n digital disp having ac ADSORPTI(ii) Residua	providing, ning of Ozo ozone gas of o neasured by play model ir ccuracy of 0 ON TECHNIQU I ozone meas	installing ne measur each ozone- a common n gm / Nm: 0.1 gm/Nm JE. uring device	client ; g, testing & ing & monitoring generating module ozone analyser, of 3 (range 0 to 200) 3 based On UV						
Designing, commissio system. I) Outlet c shall be n digital disp having ac ADSORPTIC ii) Residua be placed	providing, ning of Ozo ozone gas of o neasured by play model ir ccuracy of 0 ON TECHNIQU I ozone meas at the locat	installing ne measur each ozone- a common n gm / Nm D.1 gm/Nm JE. uring device ion after co	client c, testing & ing & monitoring generating module ozone analyser, of 3 (range 0 to 200) 3 based On UV e / ORP meter shall						
Designing, commissio system. I) Outlet c shall be n digital disp having ac ADSORPTIC ii) Residua be placed cooling w repeatabili	providing, ning of Ozo ozone gas of o neasured by play model in curacy of 0 ON TECHNIQU I ozone meas at the locat vater pond b ity ± 0.01 ppm	installing ne measur each ozone- a common n gm / Nm D.1 gm/Nm JE. uring device ion after co pasin. Digita	client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client client						
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	_	escription				2023-24		.) 2024-25	
В.	For Ozone O	Generation	System						1
	Inlet Gas Feed gas Flow	Quantity	1 No. (1 W),						
B.1	measurem	Controllin g	Rota meter with flow switch						Super Star
		Quantity	1 No. (1 W),						1
B.2	Feed gas Temperatu re		for monitoring , alarming & shut down						
	Inlet	Quantity	1 Lot						
B.3	Pressure Monitoring	Controllin g	Monitor System operation	1			1		
	Discharge Ozone Gas	Quantity	1 No. (1 W),			0	NX	b.	
B.4	Temperatu re	Controllin g	for monitoring , alarming & shut down		0	1	V		
	Ozone	Quantity	1 No. (1 W),						1
B.5	Measuring	Controllin g	0 – 400 gm / Nm3		\cap				
B.6	Ozone Leak Detector	Quantity	1 No. (1 W)	2	24				
	Inlet Volt	Quantity	1 No.						
B.7	meter	Controllin g	Monitor system loading		P				
	Inlet	Quantity	1 No.						
B.8	Amperage	Controllin g	Monitor system loading						
B.9	Inlet	Quantity	1 No. Monitor system						-
	frequency System	g	loading	-					-
B.10	watt/hr. meter/	Quantity Controllin	1 No. Monitor system	-					-
			loading						
С.	For Cooling			1					1
	Water flow measurem		1 No. (1 W),						
C.1	ent - Inlet & outlet	Туре	Rota meter with flow]
		1. 100	switch	-					1
~	Water		1 No. (1 W),	1					1
C.2	Temperatu re Inlet & outlet	Controllin g	for monitoring , alarming & shut down						
	ed Control Par]
All the nov	wer supply uni	ts or contro	I panel shall confirm	1					1

Sr. No.	Description	Unit	Rate (Rs.) 202	3-24 Rate	(Rs.) 2024-25]
	Ozone system control: The ozone generator shall utilize a Programmable Logic Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT).					
	Programmable Logic Controller:			1		
	Programmable logic controller is used in ozone generators to control the sequenced operation of the total plant as required, Plant can run both in Auto mode as well as Manual mode if desired to run individual loads, Interlocks Which are necessary to run plant in adequate manner such as Dosing Pumps, Air Flow, Cooling water Flow, Cooling water Temperature, Air Pressure, Cooling water Pressure entering the Electrode as well as control circuit safety, Door safety, Ambient ozone Leak Detector in case of any leakage is monitored and many other interlocks and safety points, analog input data 4-20mA/0-10V DC to PLC from ozone gas sensors or ozone residual sensor to monitor and also to control the output of the ozone generator, PLC will correspondingly control the power of the electrode through the Frequency Drive and HT Transformer. In typical applications where the dosing point is away from the plant building then remote PLC or Remote Input /Output is used to control the Generator output by communicating with the main plant PLC through required protocol, which will depend upon the distance. Alarms will be generated by the PLC and displayed during malfunctioning.	2	S.	2		
~	Variable Frequency Drive: Variable Frequency Drive will feed the power to HT Transformer, HT side of this transformer is connected to electrode. Variable frequency Drive having 440Volts 3Phase input and output 0 – 400 Volts, which is varied as per the requirement, is connected to the primary of HT Transformer.					-

Sr.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	1
No.					ļ
	Frequency of the drive is varied up to 800 Hz depending upon the required output. Pattern for the Voltage connection of HT Transformer is connected to Electrode. Maximum of 8000 - 10000 Volts output power from HT Transformer is given to Electrode. At high voltage, Corona will be produced inside the electrode. One can control the ozone production automatically from PLC control output to Frequency drive input 4-20mA / 0-10Volt DC signal or manually through the potentiometer or LCD text display unit of frequency drive. Variable frequency drives are IGBT based. Output waveform is PWM. These Frequency drives or AC Drives are same as commonly used on Induction motors for regulating speed and energy saving. In Ozone generator systems we are using for regulating power to HT Transformer which in turn regulate power to electrode and thus corona discharge in the electrode is controlled. Single Phase frequency drives are used for small ozone generators. Acceleration time, Control output and many other features of Frequency drive have to be considered for smooth operation of the generator. Control Flow OR Sequence of Operation in Auto Mode through PLC. 1. Procedure for machine start: To start the plant operator has to turn 'Start' rotary switch to on position, Auto-O-manual switch to Auto; following operation will take place automatically as		Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
	Control Flow OR Sequence of Operation in Auto Mode through PLC. 1. Procedure for machine start: To start the plant operator has to turn 'Start' rotary switch to on position, Auto-O-manual switch to Auto;	2	S ^r		
	be started. This will be started after checking its interlocks for Pressure Switch, Oil Switch. If any fault is there then it will display it in its HMI Display unit at the panel on compressor. After Compressors with delay of 60 seconds both Oxygen generators are Started. With Oxygen Generator Chiller is to start along with Chiller its corresponding Recirculation Pump will be on. There are two Recirculation Pumps, One Working And one Standby. Operator has to decide which pump is to be run through control switch on the panel. Process of Cooling Water flow from Chiller to Electrode and return to Chiller tank will take Place.				

·. 5.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs	.) 2024-25]
	As soon as temperature of cooling water reached at its set point, Thermostat in chiller water tank will give the signal, with delay of 60 Seconds to thermostat signal, Oxygen inlet Valve to Electrode and Ozone Outlet valve will be On, Along with these valves Dosing pump will be on. PLC Logic will check interlocks for required Oxygen flow, transformer temperature, cooling water flow, cooling water pressure, any control trip, Door open limit switch, Drive Trip. If all the required conditions to start the electrodes are met then electrodes will be started.						
	During run time if Ozone Leakage is detected through ambient ozone leak detector sensor then whole plant will be shut down & Exhaust fans fitted in the plant room will be started automatically to flush ozone air from the room. 2. Procedure for machine stop: To stop the plant, Operator has to turn 'start' button to			(2	•	
	off state, following operation will take place First Electrode will be shut off.		0	5			
	With delay of 30 seconds Chiller will be off. After chiller with delay of 5 minutes Oxygen inlet valve to Electrode and Ozone Outlet valve from Electrode, recirculation pump & Dosing pumps will be off. This is required for flushing the electrode and the system.		24				
	With delay of 20 Seconds all Outputs, Oxygen generator, Compressor, all pump will be made off. Control Flow OR Sequence of Operation in Manual Mode.						
	1. Procedure for machine start: To start the plant operator has to turn rotary switch Auto-O-manual switch to manual; Safety interlocks already considered to avoid any malfunction and damage. Safety interlocks are done using imposition relays in the manual control panel. All switches & push buttons for manual operation are provided on the manual panel along with its indication for ON, OFF & Trip. Operator has to run machine in the procedure described below otherwise next process will not start due to safety interlocks.						
	First sump pump should be made on by which normal water will flow through the heat exchanger of Compressor and Chiller. This is for cooling of compressor and chiller. There are two pumps one working & one standby operator has to select one to run, Pressure Switch at compressor side will be actuated. HMI display at compressor panel will correspondingly show the status. Compressors have to be started then, with delay of 60 seconds Oxygen generator has to be started. Along with oxygen generator chiller and its recirculation pump is to be started. Two recirculation pumps are provided one running & one standby operator has to decide which one has been run.						

r. o.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
o.	As soon as temperature of cooling water reached at its set point, Thermostat in chiller water tank will give the indication, with delay of 60 Seconds to thermostat signal, Oxygen inlet Valve to Electrode and Ozone Outlet valve will be made On, Along with these valves Dosing pumps should be started. After this electrode is to be started, this will be started after checking the interlocks for transformer thermostat, oxygen flow, door limit switches and all subsequent interlocks. 2. Procedure for machine stop: To stop the plant, Operator has to turn off individual loads one by one; Following described procedure should be followed by the operator. Electrode should be turned off first. After some delay chiller should be turned off. With delay of 5 minutes oxygen valve, ozone valves, dosing pumps, recirculation pump should be turned off. After 30 seconds compressors, oxygen generators & sump pump should be turned off. Alarms and Safety Features	Unit			
	Ozone vessel gas pressure shall be precisely regulated using transducers and PID control. A water back flow prevention device suitable for ozone use shall be installed on the ozone gas out piping. Any electrical cabinet that has a door shall have electrical and mechanical interlocks on that door.	2	24		
	Alarm list a) H igh gas exit temperature				
ľ	b) High or low gas pressure]
	c) Low chilled water flow				
	d) High chilled water exit temperature				
[e) Frequency drive failure				
	f) Loss of phase detect]
ľ	g) High inverter current trip				1
	h) Low feed gas flow				1
ŀ	i) Door interlock trip				1
L	,, "		└────	l	4

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Ughting, Air conditioning and Ventilation system: Ozone plant shall be erected in closed building that can be locked. Rooms where ozone might be emitted in case of failure shall be effectively monitored by gas detectors with alarms that stop the generation of ozone when activated. Effective monitoring means are the gas detector sensors. Rooms with ozonation plants shall be equipped with ventilation at floor level actuated automatically by the gas detectors. Ventilation shall guarantee at least three complete changes of air per hour. The bidder has to confirm and fulfill ozonisation capacities and operation of the system as adequate for the following as per the guidelines of Environment Section. Possible interruption is 102001 with a way that Ozonation is ensured for complete system after any interruption. Dasing points to be selected in such a way that Ozonation is ensured for complete system. It should be ensured that no acone-depleted pockets are left out in the system. The health and safety aspects are required to be elaborated so that proper precautions can be taken during operation and maintenance. Operations: On the basis of manufacturers operation & maintenance manual the supplier shall growide instruction on the operation of the potaneting plant & make them accessible to all personnel who work at or near the plant. Such instruction shall include the following indication: • Instruction on the operation of the plant so that share down sequence • Action in the operation of the plant so that portioners at the working place. • Preventive measures to avoid untoward situation. Safety signs: Safety signs maread shall be in accordanc	Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
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		15		102711315				1
KG/HK. 101135/20		16	KG/HR.	101135720				1
20 KG/HR. 126419650		20		126419650				1

Sr.	Description	Unit	Rate (Rs.) 2023	3-24 Rate (R	s.) 2024-25	1
No.	NOTE					4
		-				जी लग
	1) All kind of civil works including internal & externa electrification, exhaust system, Earthing works, hoist,					(signal
	· · · ·					(· (+))·
	etc. are excluded from above scope of work.	-				
	2) MCC panel is excluded from scope of work.	-				160m Jeevan Press
	3) Battery Limit for Estimation:	_				4
	The assembled ozone generation plant is pre-tested ir					
	test field and will be delivered ready for production.					
	The battery limits for the electric parts are the in and					
	outlet connections on the electrical cabinet. The batter	'				
	limits for the ozone dosing system are the pipeline					
	connections of our system, at the edge of the frame. a)				
	Inlet of air compressor for Oxygen Plant.			- Do.		
	b) Outlet flange of Ozone dosing system.	-				-
	4) Power required for Bioxyzone process is not	-				1
	mentioned in the above table. It shall be vary from case			CD Y		
	to case.			7 I A		1
	5) The Price mentioned under each category shall be	-				1
	basic cost for 1 kg/hr. For the calculation of Ozone			1		1
	generator capacity, multiply the cost mentioned in each					
	slab with the required capacity.			2		
						1
	e.g. If basic cost or Installation & commissioning cost o					
	Ozone generator of range 1 - 5 kg/hr is "X" (ref row no					
	168) & required ozonator capacity is 3 kg/hr then the	<hr/>				
	cost of that model shall be calculated as 3X.					
	6) All the taxes & duties are extra at actual.		0			1
	Abbreviations:					1
	a) PSU - Power Supply Unit	1.1				1
	b) PLC - Programmable Logic Controller	0				1
	c) HMI - Human Machine Interface					1
	d) HPO - High Pure Oxygen					1
	LIST OF MAKE					1
	Sr. No. Equipment					1
	Mechanical Item					1
	1 Rotary Air Compressor					
	2 Air Dryer					
	3 Oxygen Generation System					4
	4 Ozone Generation System	-				1
	5 Dielectric	+	┨────┨──			1
 	6 Water Chiller	+	┤───┤─			4
 		+	<u>├</u> ─── │	 		4
-	7 Centrifugal Pumps	+	<u>├</u> ───			4
	8 Duct Blower		<u>↓ </u>			4
	9 Off Gas diffusion Aerator		ļļ			4
	10 MS/ CS Pipe					1
	11 HDPE Pipe					1
	12 UPVC Pipe					1
	13 Butterfly Valve					
	14 Ball Valve]
	15 Check Valve		1			1
	Electrical Items	1				1
	1 Motors					1
	2 Switchgears	+				1
	3 Cables	+				1
	Instrument Items	+	┨────┤──		+	4
			<u>├</u>			4
	1 Pressure Gauge	+	┤───┤─			4
	2 Pressure Transmitter					J

Sr. No.					Rate (Rs.)	2023-24	Rate (Rs.)	2024-25]
	3	Electromagnetic Flow	Meter						1
	4	Rota meter with flow	switch						AL AL AL
	5	Ozone Analyzer							
	6	Ozone Leak Detector					1		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
	7	Dew Point Analyzer							The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
		Oxygen Purity Analyz	er						
		HMI Panel					1 1		1
	-	r Selection Table for O	zone Based HPO						1
	02011010	Treatment Syste							
	Plant	in catinent syste	BOD Removal by						1
	Capacity	Ozonator Required	Ozonator						
	MLD	kg/hr	mg/L						4
	1	1.5	20				0.		1
	2	3	20						4
	3	5	20						1
	4	6	20			- 6		2	4
	5	8	20						4
<u> </u>	6	9	20			1.4			4
	6	9 11	20			1	-		4
	8	11	20				┨ ──── ┤		4
	8	12	20		0				4
	-		-			-			4
	10	15	20			-			4
	11	17	20	- (4
	12	18	20	_					4
	13	20	20						4
		se contact to Technol							
		capacity above 20 kg/			1				1
		DESCRIPTION: OZONE		- V					
		SED HIGH PURE OXY							
2		OR UPGRADATION OF							
	-	OD REMOVAL & OTHE	R PARAMETERS AS						
		D NORMS OF NGT/PCB.							4
	J J	reatment ozone finds u							
		, BOD removal, DO im							
	-	atter removal, etc. In							
		ozone based wastewat							
		oxygen coming out of							
		n be recycled back to aer							
		reduce the current pow	• •						
		to 60% of present po							
		TP aerator/ air supply							
		off gas oxygen injec	-						
- 40		roves the nitrification	rates & binds more						
	phosphorou	is in the sludge.							
	-								4
	In case of o	ld STP wherein the hydr	aulic load of the STP						
		ed & owing to the hyd							
		BOD norms are not b							
		zone can be dosed in t	-						
		BOD load beforehand &	•						
		here by optimizing the	-						
		eatment with ozone also							
		DD ratio making the se							
		able for biodegradation.	-						
									J

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
	Advantages of Ozone Based HPO in STP:				1
	Ozonisation in pre or post treatment shall be helpful for disinfection, BOD removal, Oxygen Uptake Ratio improvement in biological system & improve BOD/COD				(f)
	ratio of wastewater, etc. Help to reduce power consumption of air supply means (Aerator/Blower) by recycling the off gas Oxygen generated from ozone chamber.				Chira Jeev an Prob
	Recycling of off gas oxygen to biological aeration increases the nitrifications process for & binds more phosphorous in the biological cell mass. In short, improves the TN & TP removal.				_
	Our Ozone based process can help the existing STP to treat up to 50% - 70% more hydraulic flow without the construction new STP for additional flow.			N	
	Post ozonisation helps to increase the DO level in the treated water which inherently increases the DO levels of the downstream river.		(_
	Owing to the strong oxidation potential of ozone, the FC (fecal coli forms) can be reduced as per NGT norms can be achieved.	14	S		
	Sewage Water from Equalization/ Collection Tank After Prefreatme	nt			-
	PREOZONATION TANK				1
	PREOZONATION T RECYCLED TO H AERATION TAK	PO-			4
	HPO-AERATION TANK				4
	OFF GAS FROM OZONATION TANK RECYCLED TO		2		1
	PEEOZONATION TANK SECONDARY CLARIFIER (Existing Tank can be used) Sludge Systi	MENT			
	POST OZORATION TANK				
	STANDARD SPECIFICATIONS OF OZONE BASED HPO TREATMENT SYSTEM:				
	Design Parameters :				1
	pH = 6.5 - 8.5				1
	COD = ≤ 60 ppm				1
	BOD = ≤ 30 ppm				
	TSS = ≤ 20 ppm				
	TN = ≤ 5 ppm				
	TP = ≤ 1 ppm				
	Fecal Coliform (MPN/100ml) = 10 ⁶ - 10 ⁷				
	Treated Wastewater Parameters :				
	рН = 6.5 - 8.5				
	$COD = \le 40 \text{ ppm BOD} = \le 10 \text{ ppm TSS} = \le 20 \text{ ppm}$				
	Fecal Coliform (MPN/100ml) = ≤ 230				

Sr. No.	Description			Unit	Rate (Rs.) 2	2023-24	Rate (Rs	s.) 2024-25]		
Sr. No.		D	escription			Unit					जी लग
NO.											(signal)
	Ozone Gene	erator system	m for Disinfe	ection:							
					testing						The start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and the start and th
1	commission generation disinfection Dryer, Oxyg plant, Chille Unit (PSU), associated associated involved e following ite	ing and giv system for consisting gen generater with recir Ozone Dos instrument piping & va electro-mech ems as per t	of Rotary a tion plant, rculation pu ing System, ation and lives, etc. w nanical wo	ory trials P treated air compre Ozone g mps, Pow Ozone D control vith comp rks inclu tions & ex	of Ozone d water essor, Air eneration er Supply estructor, system, lete work sive of			0	D		
	FOLLOWING	UNITS ARE	INCLUDED:				-	1	V		1
1								3]
	A) Rotary Screw Compressor: Designing, providing, installing, testing & commissioning of Rotary Screw Compressor with associated piping & valves. Rotary screw air compressor are simply rotary positive displacement machines, capable of high speed operation over a wide range of operating pressures and flow rates at high efficiencies. The main advantage of using rotary screw air compressor is that it can supply compresses air continuously with minimum fluctuation in delivery pressure and generates less heat than normal air compressors which causes energy efficiency. The technology design & details as per provided and approved by technology provider. Codes & Standards: As per manufacturer standard Ozonator Air Compressor Specifications Capacity ↓ Type Quantity Type						S.				
		(No's)	1	(Nm3/hr	(kg/cm2)						1
	1 kg/hr	2 Nos.) Approx							-
1.0	1 Kg/ 111	2 NOS. (1W+1S)		136							
	5 kg/hr	2 Nos. (1W+1S)		Approx 681]
1	6 kg/hr	2 Nos.		Approx							7
		(1W+1S)		818							4
	10 kg/hr	2 Nos. (1W+1S)	Screw, Air cooled, Lubricated	Approx 1362	4.5 - 7.5						
	11 kg/hr	2 Nos.		Approx							1
	15 kg/hr	(1W+1S) 2 Nos.		1498 Approx							-
	-	(4)41.40)	1		I	I		1	1	1	1
		(1W+1S)		2045							
	16 kg/hr	(1W+1S) 3 Nos. (2W+1S)		2045 Approx 1158							-

Description				Unit	Rate (Rs) 2023-24	Rate (Rs]		
20 kg/hr 3 Nos. Approx										
	(2W+1S)		1362		-					All and
	Class of Insulation		F							(· T
	insulation									Viener Star
Motor	Supply	41	5 V, 3Φ, 50	Hz						- sales
	Voltage									
B) A ir Dry	er									
Designing,	providing,	g, testii	ng &						1	
	ning of Air D									
	dryer consist									
	The condense							0		
	r. The wet oil t the bottom.									
	gh affinity tov			Bir Surface			1		b	
			-					1.		
	ing water v									
	and air gets p		ly dried as	s it travels		1	7.1	V		
	sicant absorbe		s per prov	vided and	1	-				1
approved b	y technology	provider.				0	1			
Codes &	Standards: A		VIII Div.1	/As per		21	1			1
manufactu	rer standard				- (1			4
	Air Dryer Spec		cification		10	.) ·				4
									1	
Ozonator Capacity J		-		ype	V					
	(No	s)	~	\sim						
1 kg/hr	1 N	lo	5	~						
5 kg/hr	1 N	lo	(/						
6 kg/hr	1 N	lo	100	ir cooled, icated]
10 kg/hr	1 N	lo								1
11 kg/hr	1 N	lo								1
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s				1					1
15 kg/hr	1 N	10								
15 kg/hr 16 kg/hr	1 N 2 No (Both									-
	1	Working)								
16 kg/hr 20 kg/hr	2 No (Both	Working) Working)								
16 kg/hr 20 kg/hr C) Oxygen Designing, commission	2 No (Both 2 No (Both	Working) Working) ant: installin gen genen		0						-
16 kg/hr 20 kg/hr C) Oxygen Designing, commissio assoiciated This Moist	2 No (Both 2 No (Both Generation Pl providing, ning of oxy, piping & valv ure free Dry	Working) Working) ant: installin gen gener es. compresse	ration pla d Air ente	ers at the						-
16 kg/hr 20 kg/hr C) Oxygen Designing, commissio assoiciated This Moist bottom of	2 No (Both 2 No (Both Generation Pl providing, ning of oxy, piping & valv ure free Dry one of the	Working) Working) ant: installin gen gener es. compresse Oxygen G	d Air ente	ers at the Adsorber,						-
16 kg/hr 20 kg/hr C) Oxygen Designing, commissio assoiciated This Moist bottom of which is fi	2 No (Both 2 No (Both Generation Pl providing, ning of oxy, piping & valv ure free Dry	Working) Working) ant: installin gen gener es. compresse Oxygen G que cerami	d Air ente enerator	ers at the Adsorber, molecular						-

	Description					Unit	Rate	e (Rs.) 2	2023-24	Rate (Rs	.) 2024-25]
D.	Generator Nitrogen ru automatical Adsorber v Nitrogen fro from Dryer are depress Each of th production Generator v other set regenerates automatical	producing Adsorber is espectively, Ily switched ia other Dr om Oxygen (adsorber is urized, purge e Adsorber pro of Dryer & s themselv Ily controllect tention is rec	Dyer Ads saturated the compu- to the othe yer Adsort Generator A DESORBED ed & vented cycles bet ion. One se oduces dry Oxygen G es. The I & under n	with mois ressed Air er Oxygen for ber. The Adsorber & when the d to the atr tween two et of dryer Air / Oxygenerator entire c	sture and feed is Generator adsorbed a moisture adsorber mosphere. o stages; & Oxygen gen while adsorber ycle is					D		
		ogy design 8		per provide	ed and	-			- 2			-
		y technology abdards: ASN		Dev.I/ Mar	nufacturer	-		_	1	V		-
	Std.					-		1.	h			_
	Ozonator Capacity 🗸		neration Sy v (No's)	/stem Spec Capacity		+	- 6	1	-			-
			, ((Nm3/hr		(Ń	V				
ľ	1 kg/hr	11	10	Approx 8.51	(2.					
	5 kg/hr	11	10	Approx 42.55	0	V	r					
	6 kg/hr	11	10	Approx 51.06	PSA based/ PVSA (CSIR IIP design)							
ľ	10 kg/hr	11	10	Approx 85.1	ucsigny							-
	11 kg/hr	11	10	Approx 93.61								
	15 kg/hr	11	10	Approx 127.65								_
	16 kg/hr	2 No (Both	Working)	Approx 68.08								-
	20 kg/hr	2 No (Both	Working)	Approx 85.1								-
	Oxygen G	eneration S	ystem Com	mon Speci	fications							
	191	Purity (by vol.)	93% ± 1%									
		Dew Point	-50 °C to -	60 °C								
	Oxygen Generatio n System	Predessica nt Filtration	-50 °C to -	60 °C								
		Predessica nt Filter Installation										
	Type 2 No of Filters in series											J

Description				Rate (Rs.)	2023-24	Rate (Rs	.) 2024-25	
	Filtration Rating for Oxygen/dri	99% - 1 Micron						
	ed air	98% - 0.3 micron						Autoria (Story Jaco
	Installation	2 No of Filters in series						
	Туре							4
D) Ozone	Generation Pl	ant :						
Designin		e : e						1
	-	e generation plant. The heart of s Ozone electrodes & its power						
-		shall combine the high ozone				0.		
		low specific power consumption						
-		ncentrations and unmatched			1		b-	
reliability						1.7		
		nerating element provides low						
		igh dielectric breakdown factor		-	1	V		
· ·		enerating elements consist of ass tubes (dielectric) and a		- K.	h			
		el high voltage electrode.		\frown				
		e dielectrics and HV-Electrodes			_			
		rooms (spaces) for the ozone	1	$\sim \nu$	·			
generatio	n while allowi	ng gas to flow on both sides of	_ \					
the tube.								4
		the dielectrics operate max. at		4				
		preakdown voltage rating. This of periodic dielectric failures						
	•	n, saving on system downtime,						
-	nce and spares							
	•	Il fulfill the requirements for						1
ozone-pr	oducing system	ms used in water treatment						
		Industrial Standard, with						
		(e.g., pressure vessels) and the						
	•	ng IS standards. shall be used for all parts &	-					-
		int that come in contact with						
ozone ga								
The ozor	e electrode n	naterial shall be confirming to	1					1
	·	1.4571equivalent to SS 316 Ti,						
the second second second second second second second second second second second second second second second se		rator as per DIN19627. Sure proof up to 6 bar. Thermal	-					4
		nsate water. Indirectly cooled						
The second second second second second second second second second second second second second second second se		led borosilicate glass free of						
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec		nerated tensions. All seals &						
gaskets o	ontaining ozon	e gases shall be made of PTFE /						
Viton.								4
	glass tube:		4					4
generatio		ass (specially for ozone						
Type: Cy	indrical open a	t both end						
Dielectri	gap:]
Dimensio	nally uniform	annular gap between H.T						1
		ic maintained at 0.5 mm by						
	device made u	•						4
H.V. elec	rode construc	tion:						1
Material	of constructio	n:						

ha Fu pro Ty Ga He inl Th ap O Ca	aving MOC use wire o rotected) & ad. ype : Cylino as / Coolir eat Exchan let & outle ne technol	c as per DIN f suitable f gauge star drical ng ends: Wa ger should et connectio ogy design r technology	e given to Aluminiu I 17007 - Part 4 throu using properties (ove adard in order to prote ter inlet & outlet com be of SS 316 Ti where on should also be of S & details as per prov provider.	ugh a S.S. er voltage ect excess nection of eas Ozone SS 316 Ti.					
Ga He inl Th ap O Ca	as / Coolir eat Exchan let & outle ne technol oproved by Dzonator apacity ↓	ng ends: Wa ager should et connectio ogy design r technology Ozone Gen Ozone	be of SS 316 Ti where on should also be of 9 & details as per prov provider.	eas Ozone SS 316 Ti.					 4
inl Th ap O Ca	let & outle ne technol oproved by conator apacity ↓	et connectio ogy design technology Ozone Gen Ozone	on should also be of s & details as per prov provider.	SS 316 Ti.					
Ca	apacity ↓	Ozone	neration System Speci						
Ca	apacity ↓			ifications					1
	1 kg/hr	Quantity	Ozone Electrode Configuration	Model			-	N,	
		1 Unit		1K				1	
	5 kg/hr	1 Unit		5K		- (2/	V	
Ľ	6 kg/hr	1 Unit	Single Electrode at rated capacity	6K		Ó	D		
	LO kg/hr	1 Unit		10K	0	S L			
	L1 kg/hr	1 Unit		11K	2	5			_
	15 kg/hr	1 Unit		15K		-			
	L6 kg/hr	2 Unit	Two Electrode X 50% Capacity	16K	V				 -
	20 kg/hr	2 Unit		20K					-
Oz	zone Gene	ration Syste	em Common Specifica	tions					
	oncentratio zone	on of	9 % ± 1% (wt. /wt.)						
wa	Facross Co ater of Ozo ectrode	-	min 5 - max 6 ⁰ C						
	MOC of Ozone Electrode SS 316 Ti (as per DIN 19627)								
Co	Cooling arrangement Water cooled pressur up to 6 bar.								
		мос	Specialty borosilicate ozone	Glass for					
Dielectric Siz	Size	ID - Approx 9 mm	0.2 mm						
Vr	OD - Approx 12 mm ± 0.2 mm Voltage & Supply 415 V, 3Φ, 50 Hz		0.2 mm					-	
	Frequency Operating 3000 - 10000 V, 3Φ, 100 - 1400							+	
-	E) Chiller with Recirculation Pumps								4

r. 0.		Description			Unit	Rate (Rs.)	2023-24	Rate (Rs	.) 2024-25]
	associated p for removal generation f of compress control cent	providing, installin ing of Chiller with recir iping & valves, etc. Suit of excess heat gener from ozone producing c sor, cooler, condenser, er, pump, chilled wate g, electrical panel, powe	culation p able capa ated duri ells. It sha refrigera r piping,	bump with city chiller ing ozone all consists nt circuit, condenser						
		ogy design & details as p	per provid	ed and						1
		technology provider.								4
		g Cooling Water Quality		()				- fac.		4
		rating Pressure =	1 – 2 ba							4
	Iron		< 0.2 mg/L < 0.05 m	ig/L			- /		5	-
	Manganese Chlorides		0.05 m	ig/L						-
	pH		- 8							-
	Hardness		0 mg/L		1		1	V		-
	Conductivity		<u> </u>	ıs/cm			la.			1
		ndards: As per Manufa					<u> </u>			
		Water Chiller S			1		1			1
	Ozonator Capacity ↓	Quantity (No's)	Capacity (TR)		0	50	0			
	1 kg/hr	1 No working	Approx 3 TR	1	2	5]
	5 kg/hr	1 No working	Approx 15 TR	-	L	p				
	6 kg/hr	1 No working	Approx 20 TR	2						
	10 kg/hr	1 No working	Approx 30 TR	Reciproca t-ing/ Scroll Hermetic- -ally sealed, air cooled						
	11 kg/hr	1 No working	Approx 30 TR]
	15 kg/hr	1 No working	Approx 50 TR							
	16 kg/hr	2 No (Both Working)	Approx 30 TR							
	20 kg/hr	2 No (Both Working)	Approx 30 TR							
	Ozonator	Water Quanti		ed						-
	Capacity 🗸	Quantity Required (m3/hr)	Inlet Temp.	Quality						
	1 kg/hr	2 (min) - 4 (max)								

Sr. No.		Description			Unit	nit Rate (Rs.) 2023-24		Rate (Rs	.) 2024-25]
	5 kg/hr	10 (min) - 20 (max)		As mentione d above in the table/ drinking water quality						
	6 kg/hr	14 (min) - 28 (max)]
	10 kg/hr	20 (min) - 40 (max)	≤ 15 °C to 25 °C							
	11 kg/hr	24 (min) - 48 (max)								
	15 kg/hr	30 (min) - 60 (max)					1		5	
	16 kg/hr	34 (min) - 68 (max)					- N.	1.1		
	20 kg/hr	40 (min) - 80 (max)						V		
		Chilled Water Reci Specific		Pump		- C.	5	÷		
	Ozonator Capacity ↓	Quantity (No's)	Head (kg/cm2)	мос	-	5	2			
	1 kg/hr	2 Nos. (1W+1S)	3.5	CI all	1)"]
	5 kg/hr	2 Nos. (1W+1S)	3.5	CI all		0				-
	6 kg/hr	2 Nos. (1W+1S)	3.5	CI all	V					-
	10 kg/hr	2 Nos. (1W+1S)	3.5	CI all						-
	11 kg/hr	2 Nos. (1W+1S)	3.5	CI all						-
	15 kg/hr	2 Nos. (1W+1S)	3.5	CI all						-
	16 kg/hr	3 Nos. (2W+1S)	3.5	CI all						-
	20 kg/hr	3 Nos. (2W+1S)	3.5	CI all						
	F) Power Su	pply Unit:]
	Supply Unit converter th Ozone techr Unit comes to ensure equipment, transformer Several doo can be locke protect the	providing, installin ing of Power Supply Ur : is a state of the art, nat provides the most e hology. Standard design on a base frame, which mechanical stability for instance power di tetc. It is a painted s rs in order to allow main ed separately. Interlocks operating staff by shutt hing the doors during no	it (PSU). 1 variable ffective op of the Pow is designe for all stribution heet stee ntenance a s at all cab ing down	The Power frequency veration of ver Supply d, in order installed , step up I cabinet. nd service inet doors the unit in						

	C	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs	.) 2024-25	
The Powe	r Supply U	nit has a dedicated power						1
		ection, inverter section and step						and and
		in order to convert the three						10/5
1.		line into a single-phase variable						(• T
I	•	y interlocks and continuous						And States
· · ·		t important parameters of the						Jen Jen
-		ility and protection of the						
installation		inty and protection of the						
	ansformer Se	ection	1					1
<u> </u>		r brings the single-phase level of	1					1
		to an appropriate level for						
		PSU performs two different						
		ion. The transformer shall be				1.01		
		hich is completely mounted on				- D		
		by the enclosure in order to						
		using normal or controlled			1		6	
	•	f the high voltage winding is five				1.4		
		perating voltage. It is designed				1.1		
for permar		perating voltage. It is designed						
l'or perma				C	/			
Power Dist	ribution Syst	em						4
		panels are designed with a	1	\cap				1
		Il circuit breakers are overload						
1. ·	-	voltage will be generated with	1					
		I transformer with leakage and		NV				
power loss		i transformer with leakage and	10					
·		& details as per provided and		\sim				4
	y technology			0				
		per manufacturer standard	- 12	r.				4
	ply Units Spe		- V.					4
l ower sup	Quantity	1 No. (1W)						1
Power	Input	1100.(110)	1					1
supply unit		415 V, 3Φ, 50 Hz						
supply unit		CE, CPRI & UL Approved	1					1
	Approvals	CE, CFRI & OE Approved	4					4
	Quantity	1 No. (1W)						
Control		- /	1					1
Panel (PLC	мос	MS, powder coated						
based)	Class of		1					1
		IP 42						1
	insulation							
100	Quantity	Quantity = 1 No. (1W) with						1
	Quantity	HMI Screen						
PLC	Туре	Non Redundant type						
	2		4					4
	HMI	4.6" - 14" Colored						
	Screen							4
G) Ozone D	osing System	n :						
Designing,	providing	installing, testing &	1					1
S S		e Dosing System with associated						
	-	systems as defined designates						
	-	hat mixes water with ozone gas						
Isuci part (
ovited from		n.	1					4
exited from	5151 01.		4					4
It shall con	nu Inianter	of Ozono registrant MOC with						
lt shall con a) Ventu		of Ozone resistant MOC with						
It shall con a) Ventu backflow	prevention	of Ozone resistant MOC with arrangement. With suitable sing the dosing point location at						

r. o.		D	escription	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
	pressure up diffuse the o c) All pipe involved in to dosing metallurgy. The techno approved by	o to 2 bar (g ozone gas the elines, valves oxygen conce point shall logy design y technology	e electrode has a sufficient) this pressure can be utilize to rough porous diffusers. , fittings & other metallic parts centrator & ozone generator up be of suitable non-corrosive & details as per provided and provider.						
ľ	0	zone Dosing	System Specifications						-
	Ozone Dosing	Туре	Gas diffusing in contact tank.						
		мос	RCC by Client			- (Ľ]
	Contact tank	Туре	Baffled Wall counter current with min 3 No of compartments, covered with water spraying arrangement for foam control.		6	5			
		HRT Liquid Depth Free Board	Approx 6 - 10 mins for disinfection & For COD/BOD removal: Approx 30 - 60 mins. Approx 4.9 - 5 m at sea level (6 m at 2440 m MSL) Min 1.2 m		<u> </u>				
ľ	Diffusers	Quantity MOC	1 Lot UPVC / Ceramic / SS 316						-
	Venturi Injectors/ Eductors with Anti Siphon	Quantity	1 Lot						
	Loop	мос	SS 316 / SS 316 L						1
	Ozone Transfer Efficiency	\mathcal{S}	Approx 80 - 95%						
	Interconne cting Piping & Valves	5.	1 Lot						
	H) Ozone D	estructor:							
	associated main goal application friendly wa ^w	piping & Va of an ozo of ozone is o ys of disinfe	installing, testing & ne Destruction System with lves. Ozone destruction is the ne destructor. Although the one of the most environmentally ction and oxidation, it is crucial r residual ozone in a safe way.						
	"threshold I	limit value" (OSHA requires that the indoor (TLV) of an eight hour exposure r million (0,1 ppm).						

Sr. No.	C	escription		Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25	7
	Ozone can be thermally but also catalytically and							
	The catalytic destruction process, because it is ear ozone generating syste Caution must be taken of the destructor to ma temperature rise is no materials must be ozone be easy replaceable. Active carbon can also b However active carbon is the use is limited to app concentration is relative fire can start in activated concentration application from a concentrated oxy The technology design approved by technology	sy to install ems and it with the de: ake sure the ot too muce e resistant a re used to de is consumed lications wh ely low. It is d carbon in l ons or where yeen source. & details a	on new and existing is cost effective. sign and dimensions e pressure drop and th. Also, the used nd the catalyst must ecompose ozone. In the process and ere the ozone critical to note that a nigher ozone e ozone is generated		0	0	20	
	Codes & Standards: As	per manufa	cturer standard		0)		_
	Ozone Dest	ructor Speci	fications Thermal/ Thermal	0	$\langle V$			_
		Туре	Catalytic / Catalytic Thermal catalyst:	2	J.			_
		Operating Temperat ure	29 - 70 °C Thermal: 300 - 350 °C Catalyst: Ambient	V				
	Ozone Destructor	Contact Time Catalyst Used	Approx 1 - 3 Sec Aluminum Oxide containing Palladium/Manganes e Dioxide					_
	2	Catalyst Life Expectanc y	Approx 5 years					
	17.	MOC of Housing	SS 316 / SS 316 L					_
	Maximum Allowable Oa Concentration for 8 hrs		0.0002 gm/m3 (0.1 ppm by Volume)					
	Demister	мос	SS 316 / SS 316 L					
	Suction Blower	Туре	Centrifugal type					
	 Measuring & Monitor Designing, providing, commissioning of Ozc system. Outlet ozone gas of 	installin one measur each ozone	g, testing & ing & monitoring generating module					
	shall be measured by digital display model having accuracy of (ADSORPTION TECHNIQU	in gm/Nm3).1 gm/Nm	(range 0 to 200)					

Τ		D	escription		Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25]
	ii) Posidual	07000 0000	uring dovic	e / ORP meter shall						4
				ondenser & in the						ana a
				al display, having						1/st
		ty ± 0.01 ppm		ai uispiay, naving						
				all be placed in the						
				ozone leakage with						Da Jeevan Pi
		cut-off signal								
				ing devices shall be						
				design & details as						
				nology provider.						
ľ	r - r									
	Codes & St	andards: As j	per manufa	cturer standard						1
		& Monitorin						121		1
- E	A.	For Feed Ga	-	on System						1
ſ				1 No. (1 W),						1
		analyzer						NV	b	
		(online)								
[A.1		Range	- 20 to -100° C,						
Γ		Oxygen	Quantitu	1 No. (1 W),			1			
4	A.2	purity	Quantity							J
		analyzer	Range	0 -100%,						ļ
	В.	For Ozone O	eneration	System			1			ļ
		Inlet Gas				1 1 1				
		Feed gas	Quantity	1 No. (1 W),	6	$\sim \nu$				
		Flow			_ \					ļ
	B.1	measurem	Controllin	Rota meter with		\bigcirc				
Ľ	0.1	ent	g	flow switch						
		Feed gas	Quantity	1 No. (1 W),		P				1
		Temperatu	Controllin	for monitoring ,	- V					
	B.2	re	g	alarming & shut						
ŀ			8	down						
		Inlet	Quantity	1 Lot						
┢		Pressure								4
	B.3	Monitoring	1000	Monitor System						
ŀ			g	operation						4
I		Discharge	Quantity	1 No. (1 W),						
I		Ozone Gas	Quantity	1 NO. (1 VV),						
ŀ		Temperatu		for monitoring ,						-
	B.4	re	Controllin	alarming & shut						
ľ			g	down						
\dagger	-	11	Quantity	1 No. (1 W),						1
	B.5	Ozone	Controllin							1
		Measuring	g	0–400 gm / Nm3						
t		Ozone	-							1
1	B.6	Leak	Quantity	1 No. (1 W)						
		Detector								
ŀ			Quantity	1 No.						1
		Inlet Volt								1
	B.7	meter		Monitor system						
			g	loading						
ſ		Inlet	Quantity	1 No.]
	B.8			Monitor system]
		Amperage	g	loading						
ſ		Inlet	Quantity	1 No.]
	B.9			Monitor system						1
		frequency	g	loading						
ſ		System		1 No.						1
	B.10	watt/hr.	Quantity	1 NU.						
			· · · · · · · · · · · · · · · · · · ·				Г [.]			1
	D.10	meter/Ene	Controllin	Monitor system						

C. For Cooling Water System Water Quantity 1 No. (1 W), measurem ent Inlet Rota meter with C.1 & outlet Type Rota meter with Water Quantity 1 No. (1 W), Image: Control In the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the	P	
flow measurem ent inlet Quantity 1 No. (1 W), C.1 & outlet Type Rota meter with flow switch Water C.2 Quantity 1 No. (1 W), Temperatu re inlet & outlet Quantity 1 No. (1 W), J) PLC Based Control Panel with HMI: Controllin g for monitoring , alarming & shut down J) PLC Based Control Panel with HMI: Image: Control Panel with HMI: All the power supply units or control panel shall confirm to CE, CPRI & UL listed. Ozone system control: The ozone generator shall utilize a Programmable Logic Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT). Programmable Logic Controller: Programmable Logic controller is used in ozone generators to control the sequenced operation of the	P	
C.1 & outlet Type Rota meter with flow switch Water Quantity 1 No. (1 W), Temperatu re Inlet & outlet Controllin g for monitoring , alarming & shut down J) PLC Based Control Panel with HMI: Control panel with HMI: All the power supply units or control panel shall confirm to CE, CPRI & UL listed. Ozone system control: The ozone generator shall utilize a Programmable Logic Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT). Programmable Logic Controller is used in ozone generators to control the sequenced operation of the	P	
Temperatu re Inlet & outlet Controllin g for monitoring, alarming & shut down J) PLC Based Control Panel with HMI: All the power supply units or control panel shall confirm to CE, CPRI & UL listed. Ozone system control: The ozone generator shall utilize a Programmable Logic Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT). Programmable Logic Controller is used in ozone generators to control the sequenced operation of the	P	
C.2 re Inlet & outlet Controllin g Tor monitoring, alarming & shut down J) PLC Based Control Panel with HMI: Alarming & shut down All the power supply units or control panel shall confirm to CE, CPRI & UL listed. Doone system control: The ozone generator shall utilize a Programmable Logic Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT). Programmable Logic Controller is used in ozone generators to control the sequenced operation of the	P	
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Controller (PLC). PLC software shall be stored in EEPROM and not solely in volatile static RAM. Each ozone generator shall have an automatic and manual control mode. In the automatic mode, the generators power shall be modulated by a command from an external 4-20 milliamps signal from a process controller to the integral PLC. In the manual mode, the operator shall be able to set the inverter frequency via the operator interface terminal (OIT). Programmable Logic Controller: Programmable logic controller is used in ozone generators to control the sequenced operation of the	2 ⁵	
as well as Manual mode if desired to run individual loads, Interlocks Which are necessary to run plant in adequate manner such as Dosing Pumps, Air Flow, Cooling water Flow, Cooling water Temperature, Air Pressure, Cooling water Pressure entering the Electrode as well as control circuit safety, Door safety, Ambient ozone Leak Detector in case of any leakage is monitored and many other interlocks and safety points, analog input data 4-20mA/0-10V DC to PLC from ozone gas sensors or ozone residual sensor to monitor and also to control the output of the ozone generator, PLC will correspondingly control the power of the electrode through the Frequency Drive and HT Transformer. In typical applications where the dosing point is away from the plant building then remote PLC or Remote Input/output is used to control the Generator output by		

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
	Variable Frequency Drive will feed the power to HT Transformer, HT side of this transformer is connected to electrode. Variable frequency Drive having 440Volts 3Phase input and output 0 – 400 Volts, which is varied as per the requirement, is connected to the primary of HT Transformer.						
	Frequency of the drive is varied up to 800 Hz depending upon the required output. Pattern for the Voltage versus frequency curve will be linear. High voltage connection of HT Transformer is connected to Electrode. Maximum of 8000 - 10000 Volts output power from HT Transformer is given to Electrode. At high voltage, Corona will be produced inside the electrode. One can control the ozone production automatically from PLC control output to Frequency drive input 4-20mA / 0-10Volt DC signal or manually through the potentiometer or LCD text display unit of frequency drive. Variable frequency drives are IGBT based. Output waveform is PWM. These Frequency drives or AC Drives are same as commonly used on Induction motors for regulating speed and energy saving. In Ozone generator systems we are using for regulate power to electrode and thus corona discharge in the electrode is controlled. Single Phase frequency drives are used for small ozone generators. Acceleration time, Control output and many other features of Frequency drive have to be considered for smooth operation of the generator.	S	S	5	2		
	Control Flow OR Sequence of Operation in Auto Mode through PLC.						
-	 1. Procedure for machine start: To start the plant operator has to turn 'Start' rotary switch to on position, Auto-O-manual switch to Auto; following operation will take place automatically as described in logic software of PLC. Sump Pump should be started first by which normal water will flow through the heat exchanger of Compressor and Chiller. This is for cooling of compressor and chiller. With Delay of 60 seconds both the compressors are to be started. This will be started after checking its interlocks for Pressure Switch, Oil Switch. If any fault is there then it will display it in its HMI Display unit at the 						
	panel on compressor. After Compressors with delay of 60 seconds both Oxygen generators are Started.						
	With Oxygen Generator Chiller is to start along with Chiller its corresponding Recirculation Pump will be on. There are two Recirculation Pumps, One Working And one Standby. Operator has to decide which pump is to be run through control switch on the panel. Process of Cooling Water flow from Chiller to Electrode and return to Chiller tank will take Place.						

Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs	.) 2024-25]
	As soon as temperature of cooling water reached at its set point, Thermostat in chiller water tank will give the signal, with delay of 60 Seconds to thermostat signal, Oxygen inlet Valve to Electrode and Ozone Outlet valve will be On, Along with these valves Dosing pump will be on. PLC Logic will check interlocks for required Oxygen flow, transformer temperature, cooling water flow, cooling water pressure, any control trip, Door open limit switch, Drive Trip. If all the required conditions to start the electrodes are met then electrodes will be started.						
	During run time if Ozone Leakage is detected through ambient ozone leak detector sensor then whole plant will be shut down & Exhaust fans fitted in the plant room will be started automatically to flush ozone air from the room.			0	A	•	-
			1	. 1	V]
	2. Procedure for machine stop:			les."			
	To stop the plant, Operator has to turn 'start' button to off state, following operation will take place		\cap	\mathcal{L}			
	First Electrode will be shut off.		212				1
	With delay of 30 seconds Chiller will be off.	_ (V				-
	After chiller with delay of 5 minutes Oxygen inlet valve to Electrode and Ozone Outlet valve from Electrode, recirculation pump & Dosing pumps will be off. This is required for flushing the electrode and the system.	l),				
	With delay of 20 Seconds all Outputs, Oxygen						-
	generator, Compressor, all pump will be made off.						
	Control Flow OR Sequence of Operation in Manual						
	Mode.						4
	1. Procedure for machine start:						4
	To start the plant operator has to turn rotary switch Auto-O-manual switch to manual; Safety interlocks already considered to avoid any malfunction and damage. Safety interlocks are done using imposition						
	relays in the manual control panel. All switches & push buttons for manual operation are provided on the manual panel along with its indication for ON, OFF & Trip. Operator has to run machine in the procedure						
	described below otherwise next process will not start due to safety interlocks.						
	First sump pump should be made on by which normal water will flow through the heat exchanger of Compressor and Chiller. This is for cooling of compressor and chiller. There are two pumps one working & one standby operator has to select one to						
	run, Pressure Switch at compressor side will be actuated. HMI display at compressor panel will correspondingly show the status.						

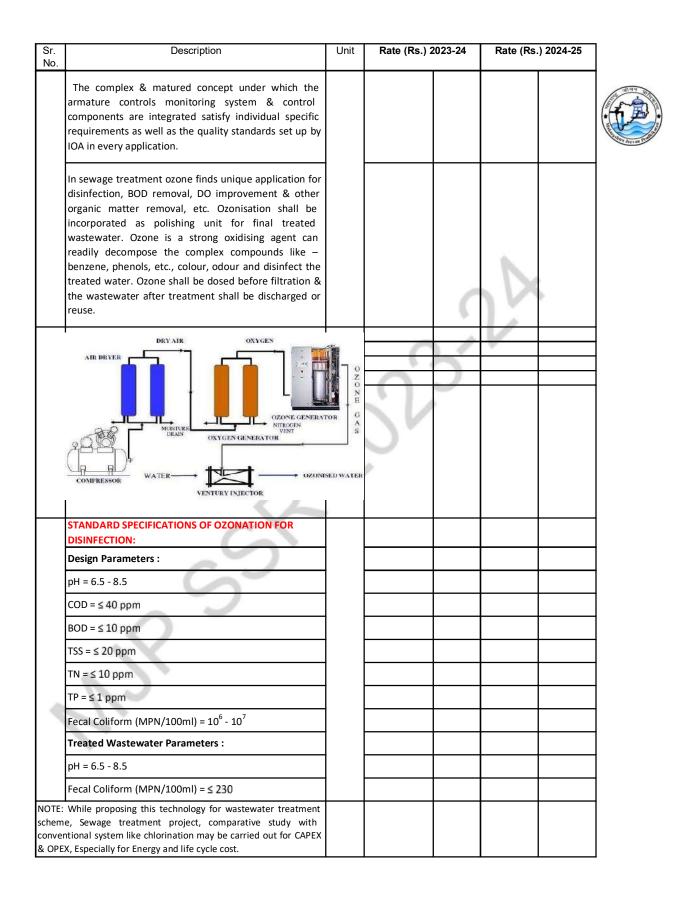
С							
o: bi ru	ompressors have to be started then, with delay of 60 econds Oxygen generator has to be started. Along with xygen generator chiller and its recirculation pump is to e started. Two recirculation pumps are provided one unning & one standby operator has to decide which ne has been run.						
se in si O	is soon as temperature of cooling water reached at its et point, Thermostat in chiller water tank will give the adication, with delay of 60 Seconds to thermostat ignal, Oxygen inlet Valve to Electrode and Ozone butlet valve will be made On, Along with these valves toosing pumps should be started.						
at th	fter this electrode is to be started, this will be started fter checking the interlocks for transformer hermostat, oxygen flow, door limit switches and all ubsequent interlocks.			(D))	
2	. Procedure for machine stop:	\vdash	-	1	V		+
T(lc b(o stop the plant, Operator has to turn off individual bads one by one; following described procedure should e followed by the operator. lectrode should be turned off first.		9	D			
A	fter some delay chiller should be turned off.	H	V				-
L	Vith delay of E minutes ovugan valva, arona valvas						4
	Vith delay of 5 minutes oxygen valve, ozone valves, osing pumps, recirculation pump should be turned off.	P	e.				
รเ	fter 30 seconds compressors, oxygen generators & ump pump should be turned off. Iarms and Safety Features						
O u: pi in ca	biome vessel gas pressure shall be precisely regulated sing transducers and PID control. A water back flow revention device suitable for ozone use shall be installed on the ozone gas out piping. Any electrical abinet that has a door shall have electrical and mechanical interlocks on that door.						-
A	larm list						1
a) High gas exit temperature						1
b) High or low gas pressure						1
c)) Low chilled water flow						1
ď) High chilled water exit temperature						1
e) Frequency drive failure	\vdash					1
f)	Loss of phase detect						1
	g) High inverter current trip						1
	h) Low feed gas flow						1
F	i) Door interlock trip						1
F	j) Ozone concentration (intermittent)						1

Sr. No.	Description	Unit	Rate (Rs.) 2	023-24	Rate (Rs.) 2024-25]
No.	Ozone plant shall be erected in closed building that can be locked. Rooms where ozone might be emitted in case of failure shall be effectively monitored by gas detectors with alarms that stop the generation of ozone when activated. Effective monitoring means are the gas detector sensors. Rooms with ozonation plants shall be equipped with ventilation at floor level actuated automatically by the gas detectors. Ventilation shall guarantee at least three complete changes of air per hour. The bidder has to confirm and fulfill ozonisation capacities and operation of the system as adequate for the following as per the guidelines of Environment Section. Possible interruptions of Ozonation due to problems such as supply failure, interruption in supply of ozone gas etc. Unit's start-ups and shut downs- planned / forced. Quick stabilization of the system after any interruption. Dozing points to be selected in such a way that Ozonation is ensured for complete system. It should be ensured that no ozone-depleted pockets are left out in the system. The health and safety aspects are required to be elaborated so that proper precautions can be taken during operation and maintenance. Operations: On the basis of manufacturers operation & maintenance manual the supplier shall provide instruction for the operation of the ozonating plant & make them accessible to all personnel who work at or near the plant. Such instruction shall include the following indication: • Instruction on the operation of the parts of the plant • Starting and shut down sequence • Action in the event of the faults	2	S	5			
	 Preventive measures to avoid untoward situation. Safety Signs: Safety signs marked shall be in accordance with the 						
	safety concerns at the working place. The technology design & details as per provided and approved by technology provider.						
	Cost of Ozone Generator per kg capacity on SITC basis for Disinfection						
	1	KG/HR.	8150918				1
	5	KG/HR.	40754592				1
	6	KG/HR.	36340414				1
	10	KG/HR.	60566691				1
	11	KG/HR.	60413851				1
	15	KG/HR.	82357339			L	1
	16	KG/HR.	78947583				1
	20	KG/HR.	98684479				1
	NOTE]

Sr. No.		Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.	.) 2024-25]
	electrificatio	of civil works including internal & external on, exhaust system, Earthing works, hoist, luded from above scope of work.						
	2. MCC pan	el is excluded from scope of work.						A BOT AREY IN TO BUT
	3. Battery L	imit for Estimation:						
	test field and The battery outlet connections limits for t connections Inlet of air	bled ozone generation plant is pre-tested in nd will be delivered ready for production. limits for the electric parts are the in and ections on the electrical cabinet. The battery he ozone dosing system are the pipeline s of our system, at the edge of the frame. a) compressor for Oxygen Plant. b) Outlet one dosing system.			0	D.		
	basic cost f generator c	e mentioned under each category shall be for 1 kg /hr. For the calculation of Ozone apacity, multiply the cost mentioned in each e required capacity.		C	5	V		
	of Ozone ge no 168) & re	sic cost or Installation & commissioning cost enerator of range 1 - 5 kg/hr is "X" (ref row equired ozonator capacity is 3 kg/hr then the model shall be calculated as 3X.	5	5h				
		xes & duties are extra at actual.		b.				1
	6. Abbrevia a) PSU -	tions: Power Supply Unit	V					4
		Programmable Logic Controller						1
		Human Machine Interface						-
	LIST OF EQ							-
	Sr. No.	Equipment						-
	Mechanica							-
		Rotary Air Compressor						-
		Air Dryer						-
	-	Oxygen Generation System						-
		Ozone Generation System						-
	5	Dielectric						-
	6	Water Chiller						
	7	Centrifugal Pumps						
	8	Duct Blower						
	9	Off Gas diffusion Aerator						
	10	MS/ CS Pipe						
	11	HDPE Pipe]
	12	UPVC Pipe						1
	13	Butterfly Valve						1

	Description		Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25]
15	Check Valve							20 10 27
Electrical Ite	em							(F)
1	Motors							
2	Switchgears							Arevan Pres
3	Cables							1
								-
								4
								-
						6		4
3	Electromagnetic Flow	Meter						4
4	Rota meter with flow	switch			6)V	10 C	
5	Ozone Analyzer							
6	Ozone Leak Detector			0	1	V]
7	Dew Point Analyzer			~				1
		er			-			1
		-	- (∇V				-
		r Disinfection	-) ·				4
	Application							
	Ozonator Required							
MLD	kg/hr	mg/L						1
1	1 to 2	1						1
2	3	1.5]
3	4	2						4
4	5 to 6	3						4
5	7 to 8	r						4
								-
-								4
								-
								4
11	19 to 20	10						1
12	21 to 22	11						1
13	23 to 24	12]
14	25 to 26	13]
15	27 to 28	14						
16	29 to 30	15						4
17	31 to 32	16						4
18	33 to 34	17						4
19								4
20	37 to 38	19						
	Electrical Ite 1 1 2 3 Instruments 1 1 2 3 Instruments 1 1 2 3 4 5 6 7 8 9 0 2 2 3 4 5 6 7 8 9 10 1 1 2 3 4 5 6 7 8 9 10 1 1 1 2 13 14 15 16 17 18 19	Flectrical IterElectrical Iter1Motors2Switchgears3CablesInstrument ter1Pressure Gauge2Pressure Transmitter3Electromagnetic Flow4Rota meter with flow4Rota meter with flow0Jozone Leak Detector6Ozone Leak Detector7Dew Point Analyzer8Oxygen Purity Analyzer9HMI PanelOzonator RequiredMLDkg/hr11 to 2233445 to 657 to 869 to 10711 to 12813 to 14915 to 161017 to 181119 to 201221 to 221323 to 241425 to 261527 to 281629 to 301731 to 321833 to 341935 to 36	Flectrical IterElectrical Iter1Motors2Switchgears3CablesInstrument ter1Pressure Gauge2Pressure Transmitter3Electromagnetic Flow Meter4Rota meter with flow switch5Ozone Leak Detector6Ozone Leak Detector7Dew Point Analyzer9HMI PanelOzone Table for Disinfection ApplicationApplicationApplication111 to 2123157 to 845 to 63469 to 1057 to 869 to 1071 to 126357 to 845 to 631.571 to 1269 to 1057 to 845 to 681 3 to 147915 to 1681017 to 18915 to 16813 to 141012 2 1 to 221119 to 201119 to 201221 to 221323 to 241425 to 2613151731 to 32161833 to 34171935 to 361833 to 34	Identified to the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set 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strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strain strai	Image: state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the state in the 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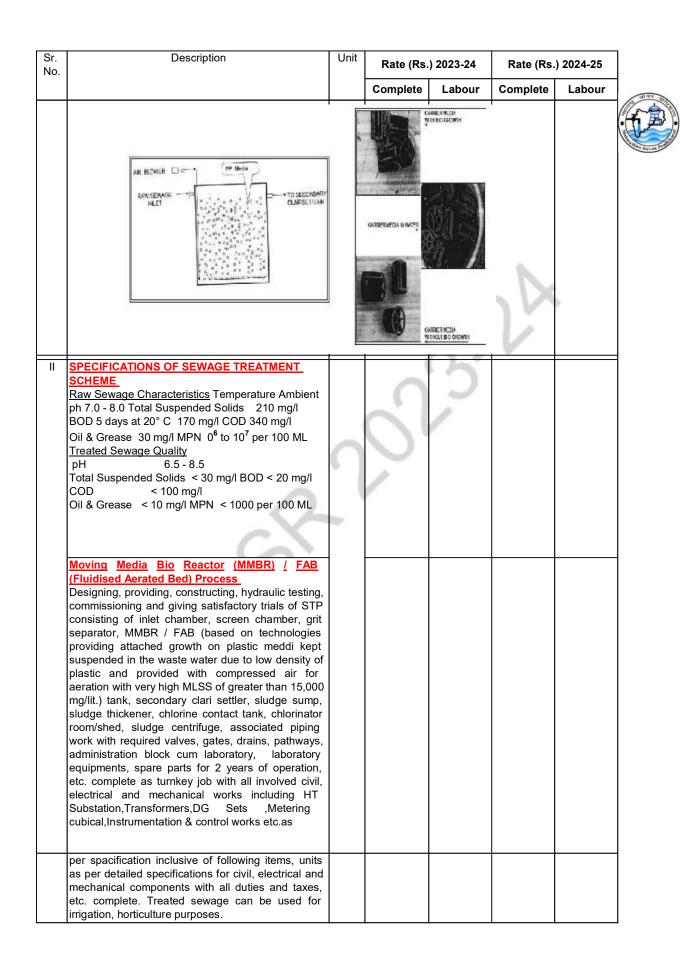
Sr. No.	Description	Unit	Rate (Rs.) 2	2023-24	Rate (Rs.) 2024-25	
	Note: Please contact to Technology provider for Ozonator capacity above 20 kg/hr.						A A A A A A A A A A A A A A A A A A A
2	PROCESS DESCRIPTION: OZONE GENERATION SYSTEM FOR DISINFECTION OF STP TREATED WASTEWATER / WTP.						The Reven Press
	The ozone generator module is fabricated as a stainless steel cylinder, holding several smaller stainless steel tubes, welded through a plate at the top & bottom. This particular cylinder serves as a ground electrode in an electrical field whereas an inserted hollow steel rod serves as the high voltage electrode. The entire cylinder can be considered as a heat exchanger when cooling water removes the excess energy as heat- energy, which is not being used in ozone generation. The positioning of the specialty glass tube, closed at the bottom between the two electrodes serves as a dielectric, & allows a narrow annular discharge column.			9	2		
	The feed gas to be ozonated crosses the ozoniser through the annular thin spaces between the dielectric tubes as well the space between the high voltage electrodes & dielectrics. The HV- electrodes are maintained at high voltage, and the vessel is connected to earth. The high electric field in the two annular spaces produces in a silent electrical discharge (cold plasma) the corona.	5	S	5			
	A part of the electric energy necessary for this ozone generation is transformed into heat. This heat is removed by the cooling water passing through the vessel. When high voltage is applied to the electrodes, a silent electrical discharge takes place in the annular column. This causes the generation of ozone through impact ionization & the combination when air or oxygen flows through the module. A mixture of O2/O3 with a specific concentration leaves the generator modules.		P				
	Advantages of Ozone System for STP treated wastewater Disinfection: • Ozonisation in post treatment shall be helpful for disinfection, BOD removal, etc. • Post ozonisation helps to increase the DO level in the treated water which inherently increases the DO levels						•
4	of the downstream river. • Owing to the strong oxidation potential of ozone, the FC (fecal coli forms) can be reduced as per NGT/PCB norms can be achieved.						
	 Ozone doesn't increase the ionic load of the treated water unlike other oxidant like chlorine. 						
	 Ozone is produced on site and does not require storage or transportation. 						
	The ozone production can be varied by changing either the secondary voltage or the frequency of the electrical power. The electrical control circuit for the high voltage regulation & all peripheral installation & their power supply are integrated into a common low voltage control unit. It contains all necessary switches, control, measurements, safety & signal installations.						



SECTION - J (II) MOVING MEDIA BIO REACTOR TECHONOLOGY



Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	जीवन क
1	2	3	4	1	5	5	(5-A)
1	PROCESS DESCRIPTION - MOVING MEDIA BIO REACTOR TECHNOLOGY						
	The Moving Media Bio Reactor Technology is a						Barbor Jeevan Profile
	advanced biological treatment process which has a						
	combination of activated sludge process and attached growth process. The bio reactor has lot of						
	packing material called carrier media in suspension						
	and provides a large surface area for micro						
	organisms to grow and degrade the organic matter in aerobic condition. Due to the use of carrier media,						
	the higher concentration of bio mass is developed						
	which helps to reduce the basin size, accept higher loading rates and take shock loads. The sewage						
	after screening and grit removal flows by gravity into			/	$\sim 1X$		
	the BIO REACTOR wherein the attached growth,			(
	aerobic microbes will utilize pollutant in presence of oxygen thereby, further reducing BOD. The air						
	required will be provided through coarse bubble air			n'	V		
	diffusers provided on the aeration grid at the bottom of reactor and using positive displacement, twin			5			
	lobe, root type air blower for supply of oxygen. The		\cap	-			
	PP media is provided in the aeration tank to allow the aerobic microbes to grow and get attached. This		\sim	1			
	media remains in			/			
	fluid state in the aeration tank thereby keeping large	\sim					-
	number of microbial colonies moving in the tank and	N 1	4				
	provide high concentration of bio mass available at						
	all the time. The microbes get exposed to bio degradable organics in presence of oxygen and						
	convert it into cell biomass, water molecule and						
	carbon-dioxide. The microbial colony grows on plastic media. The excess bio mass gets sloughed						
	and moves with treated water into subsequent unit.						
	This sloughing action is a continuous process and						
	the microbes keep on growing and sloughing. This is a very fast process and hence system becomes						
	self sustaining.						
	The dead bio mass generated will be separated in]
	the CLARISETTLER TANK wherein tube media is provided for providing additional surface area for						
	settlement of bio mass and thereby reducing the						
	space requirement. The solid-liquid separation is achieved in this tank						-
	and clear supernatant will flow by gravity.						
	The treated wastewater will be disinfected with Chlorine and allowed to react in CHLORINE					_	
	CONTACT TANK prior to suitable disposal.						
	A typical sketch of bio reactor showing various]
	components is given below. The MMBR / FAB Technology has following						1
	advantages over Conventional Systems like :						
1	Low on civil works						4
2	Low space requirement Low on operating cost due to higher Oxygen						-
	Transfer Efficiency.						
4	Low on maintenance cost						1
	Easy to operate with semi-skilled manpower						4
6 7	Higher efficiencies in pollutant removal Effective removal of nitrates and phosphates						4
	Quick retrieval of system after shutdown / power						1
	failure						J



Sr. No.	Description	Unit	Rate (Rs.	.) 2023-24	Rate (Rs.) 2024-25]
			Complete	Labour	Complete	Labour	
	FOLLOWING UNITS ARE INCLUDED 1. Inlet Chamber Designing, providing and constructing RCC (M-25) inlet chamber designed for the peak flow including necessary excavation in all types of strata including walkway all around the periphery. Each compartment will have CI gates with extension rod, head stock, operating wheels, GI pipe railing, etc. The work includes providing and making necessary arrangements to connect the flow to screen chamber by approach channel as directed and as per specifications. 2. Screen Chamber Designing, providing, constructing, testing and commissioning of screen chamber, designed for peak flow in RCC (M-25), including walkway 1.2 m wide with GI pipe.	1 No. 2 Nos		(
	3. Grit Separator Designing, providing and constructing detritor type grit removal mechanism in RCC (M-25) capable of removing 100% 0.2 mm size particle and above, having specific gravity 2.30 designed for peak flow with suitable arrangement of separation of grit from putrescible solids including providing and making necessary arrangements of Jb-1. Inlet and outlet channels of required sizes as make be required to connect the flow to connecting unit, etc. complete including hydraulic testing for watertightness of structure having minimum FB of 0.3 m, washout arrangement to grit chamber and platform 1.2 m wide RCC walkway with GI pipe handling shall be provided. A pit for collecting grit conveyed by conveyor shall be provided. It should be suitable to handle the grit for carting. All arrangements shall be as detailed specifications and as directed.	2 No	5	3			
	4. MMBR / FAB Tank Designing, providing and constructing in RCC (M- 25) biological reactor tank for removal of BOD along with nutrient removal to handle the average flow and having hydraulics suitable to handle peak flow conditions with suitable 1.2 m wide walkway, expansion joints as required, including foundation, etc as per specifications. The tank shall be equipped with inlet and outlet arrangement, air blowers for supply of air, coarse bubble diffusers and aeration grid in SS 304, PP carrier bio media, etc. FB of 0.5 m and SWD as required should be complete as per detailed specifications.						

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
			Complete	Labour	Complete	Labour	जीवन ह
	5. Secondary Clari Settler Designing, providing and constructing in RCC (M-25) watertight secondary clari settler having SWD of 3.75 m + 0.5 m FB and has tube media in the clarification zone to provide additional surface area for settling. The settler shall be provided with a scraper mechanism in MS with epoxy painting for collecting the settled solids at the bottom (bottom slope 1:12). The central feed well shall be made of MS with epoxy painting from both faces and well stiffened. The sewage will be admitted in the feed well and then will move outwards towards periphery slowly and continuously over a weir and will be collected in a launder.	1 No					
	6. Chlorine Contact Tank Designing, providing and constructing chlorine contact tank of adequate capacity to deal with average flow. The contact time provided is 30 mm to achieve 99.99% reduction in coliform during average flow condition. Chlorine dosage will be as per standard provisions including designing, providing and constructing water supply provision for chlorination, including providing dewatering and bypass arrangement for joining to final effluent mains and outlet weir, etc. complete. The effluent quality should match with the standards laid down by Maharashtra Pollution Control Board and as per obligatory provision and as detailed specification and as directed by Engineer-in-charge.	1 No.	0	3	V		
	7. Chlorinator and Chlorinator Room / Tonner Room Designing, providing and constructing vacuum type chlorinators having adequate capacity for dosage of adequate chlorine to ensure 99.99% coliform reduction as per obligatory provisions, detailed specifications with necessary provision of having chlorinator room of adequate size. The chlorinator equipment shall include chlorine cylinders / tonners, piping, valves, measuring, controlling equipments, safety devices, lifting equipment, etc. complete as per IS 10553 (Part II) 1982. The tonner room should have min. 3 MT capacity crane for loading and unloading facility. Tonner storage should be distinctly isolated and should have min. storage space as per the detailed specifications and as per gas law 1981 and factory act shall be provided. All other matching amenities shall be provided, 5 MT gantry rail shall be provided for full length of tonner room at 6 m ht. from level of tonner room with outlet.	1 No					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	जी मन क
	 8. Sludge Sump Designing, providing and constructing of sludge sump and pump for discharging sludge to sludge thickener using MS pipe, etc. complete as per detailed specification. 9. Sludge Thickener Designing, providing and constructing watertight of sludge thickener - gravity type in RCC (M-25) with inlet and outlet pipes, central feed well, sludge it and sludge removal arrangement, grouting wherever necessary with walkway all around of 1.20 m with GI pipe railing interconnecting CI pipes all complete as per specifications, having bottom slope 1:8 and 3 m SWD with necessary fixed bridge scraper arrangement as per detailed specifications and necessary inlet and outlet arrangement, all other arrangement as per detailed specifications. 			0			
	10. Sludge Centrifuge Platform with Centrifuge Designing, providing, constructing and installing including foundation, etc.,sludge centrifuge to handle the sludge flow of 1 day in 18 hrs per unit with sludge dewatering unit, drain, etc complete is per specification. Sludge centrifuge with necessary arrangements as per detailed specification mentioned in tender and obligatory provisions to be provided with satisfactory functioning.	1 No	9	3			
	11. Outfall Sewer Designing, providing, constructing appropriate outfall sewer of RCC NP2 pipe to discharge treated effluent, untreated effluent from outlet chamber (after basin / chlorination tank) to the local Nallah at the point shown on the drawing including necessary chambers for inspection and cleaning including excavation, dewatering, refilling, concrete, encasing / bedding concrete.(after basin / chlorination tank) to the local Nallah at the point shown on the drawing including necessary chambers for inspection and cleaning including excavation, dewatering, refilling, concrete, encasing / bedding concrete.	1 No					
	12. Piping Work in CI LA class including Sluice Valves, Reflux Valves, MS Gates Providing, laying and jointing pipes other than those already included in the above items for interconnection, bypass drains, etc. of all units including adequate number of manhole chambers. The item includesexcavations, refilling and hydraulic testing of pipes, valves, gates, accessories and cost of jointing materials. The item includes required channels with gates or interconnection of units, bypass drains, etc. for ill units as directed, etc complete as per detailed specifications.	Lot					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25]
			Complete	Labour	Complete	Labour	्रीवर ह
	13. Administrative Building cumLaboratory (G+1) Designing, providing and constructing administrative building, office cum laboratory including stores. This shall be building having appropriate carpet area, at ground floor and at first floor complete as per specifications including necessary excavation, foundation in RCC M-20 framed structure, BB masonry (IInd class in CM 1:6), 20 mm cement plaster in CM 1:3, inside and outside painting, aluminum door and window with glass panels, mosaic tile flooring and skirting and all other allied items, fixtures, fastening, electrification arrangement, water supply arrangement, etc complete. The building will have laboratory on upper floor of administrative building and should have complete control of every unit as per laboratory equipment, beautification, telephone and intercom arrangement and wireless system.				5		
	PRICE SCHEDULE Capacity of the Plant in MLD	Unit	0	C			
	Area required in Sqm.						-
	1 450	MLD	207.98				-
	3 600	MLD	122.75				-
	5 1000	MLD	105.51				-
	8 1500	MLD	96.28				
	10 1800	MLD	93.75				
	13 2500	MLD	84.89				
	15 2650	MLD	77.39				
	18 3250	MLD	76.15				
	20 3500	MLD	73.37				
	25 4350	MLD	70.49				1
	NOTES						1
	Screen chamber and grit separator upto 5 MLD capacity are manual type. Upto 5 MLD capacity STP, chlorination is done by using sodium hypochlorite solution. Above 5 MLD capacity, gas chlorinator is provided.						
3	Sludge thickener is not provided upto 3 MLD capacity STP. Sludge will be collected into sludge sump and pumped directly to sludge dewatering system.						
4	For all STP, sludge dewatering is using solid bowl centrifuge.						
5	Chlorinator room not provided for STP upto 3 MLD. For STP upto 3 MLD, labo rat o ry / administration building is not provided. Only a room for operator is provided.						
6	Boundary wall, fencing, gate, storm water drains, site clearance is not considered in the scope.						
7	All water retaining structures are in M30 grade of concrete.						1
8	Water table is considered 5 m below GL for design.						

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	्रताव
9	Soil bearing capacity is considered as 20 T/m ² at 1.5 m below GL.					(.	6
10	Lead for excavation is considered as 0.5 km.						Sugar Bury Revi
11	Grade of cement used is OPC 43 grade.						
12	Grade of steel used is Fe 415.						
	Peak factor considered for design for plants upto 3 MLD is 3, 4; upto 15 MLD is 2.5, 16; upto 20 MLD is 2.0.						
14	Chemicals required during trial run and commissioning are not considered.				- D		
15	Water and power during construction, trial run and commissioning shall be provided by client.			1	5X		
16	Power available at STP location is assumed as LT power supply.						
IV	MAKES OF EQUIPMENT			0~	Y		
No.	Description	Make					
1	Centrifugal Pumps	Eqv.	ar / Jhonson	1			
2	Screw Pumps		Tushaco / Eq				
3	Air Blower	Usha / Eqv.	Swam / Kay	/ Kulkarni /			
4	Dosing Pumps	Milton	Roy / VK Pun e / Minimax /				
5	Agitators / Flocculators	Pavan	/ Fibre & Fibr	e / Ceecons			
6	Clarifier / Thickener Mechanism		fabricated as ved design/ma				
7	Screens		fabricated as ved design/ma				
'8	Grit Separator		fabricated as /ed design / m				
9	Chlorinator		on Jesco / Ba t Chloro / Chl / Eqv.				
10	Chlorine Tonner	Meena	ıkshi / Eqv.				
11	Solid Bowl Centrifuge	Alfa La Hiller /	aval / Humboli Eqv.	/ Wedag /			
12	Motors	Cromp	ton / Siemens	s / Lakshmi			
13	Cables	Finole	k / Polycab				
14	MS pipes	Mahar	akshmi Seam ashtra Seaml oshni / Jindal	ess /			
15	CI Pipes		n/ Electrostee				
16	Valves		lve / BDK / P AV Valves / E				
17	Clarisettler Media		eck / Munters				
18	Bio Reactor Carrier Media	As per make	MJP approve	ed design /			

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	
A	Cyclic Activated Sludge Process Designing, providing, constructing, hydraulic testing, commissioning and giving satisfactory trials of STP based on SBR technology with SCADA & Automation and consisting of Inlet Chamber, Screen Chamber, Detritus Tanks, Distribution Chamber and Biological CASP Basins, Sludge Sump, Chlorine Contact Tank, Chlorinator Room/Shed, Sludge Centrifuge necessary piping work with required valves, gates, drains, pathways Administration Block cum Laboratory, Laboratory Equipments, Tools and Plants, Spare Parts, etc. complete as turnkey job with all involved civil, electrical and mechanical works including HT Substation,Transformers,DG Sets ,Metering cubical,Instrumentation works etc. as per spacification inclusive of following items, units as per detailed specification for civil, electrical and mechanical components with all duties and taxes, etc. complete to achieve BOD < 5 ppm, COD < 100 ppm, TSS < 10 ppm, to get recyclable quality of water for industrial / agricultural purposes. (In Case Cyclic activated sludge plant is designed for N, P outlet parameters shall also include TN < 10 ppm, Nh3N < 2 ppm and TP < 1 ppm)		3	3	2		
	UNITS INCLUDED 1. Inlet Chamber Designing, providing, and constructing RCC (M-250) inlet chamber for the peak low of 2 DWF including necessary excavation in all types of strata including walkway all around the periphery. Each compartment will have phosphor bronze steel gates with extension rod, head stock, operating wheels, GI pipe railing, etc. The work includes providing and making necessary arrangements to connect the flow to screen chamber by approach channel as directed and as per specifications. 2. Screen Chamber Designing, providing, constructing, testing and commissioning of screen chamber, designed for average 1 DWF and maximum peak flow of 2 DWF in RCC (M-250), including inlet pipe / channel from inlet chamber, outlet pipe channel to detritus tank, free board of 0.5 m minimum, RCC walkway 1.2 m wide with GI pipe railing, RCC staircase of 1.2 m width from GL to screen chamber.						

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	जीवन र
	3. Detritus Tank Designing, providing and constructing continuous grit removal type Detritus Tank, mechanically operated in RCC (M-250) capable of removing 100% of 0.2 mm size particle and above, having specific gravity 2.30, designed for one peak 2 DWF with suitable arrangement of separation of grit from putrescible solids. Inlet and outlet channels of required sizes as may be required to connect the flow to connecting unit etc. complete including hydraulic testing for watertightness of structure having minimum FB of 0.3 m, washout arrangement to grit chamber and platform 1.2 m wide RCC walkway with Gl pipe handling shall be provided. A pit for collecting grit conveyed by conveyor shall be provided. It should be suitable to handle the grit for carting. All arrangements shall be as detailed specifications and as directed.				5		
	4. CASP Basins Designing, providing and constructing in RCC (M- 250), CASP basins for biological removal of BOD along with nitrification, denitrification, Bio-P removal in compartments to handle combine flow of 1 DWF incoming flow and recirculation flow including construction of selector compartments and providing 1.2 m wide clear approach walkways, expansion joints wherever necessary, including foundations, etc as per specifications. Peak factor shall be 2, F/M ratio shall be 0.15, complete with air blowers, fine diffused aeration grid / equipment and FB 0.5 m and SWD as required. DO level in basin to be minimum 2 mg/l complete with 'Oxygen Uptake Rate' control system and all related instruments, stainless steel decanters and automation works. MLSS concentrations shall be 2000-5500 mg/l or more. MLVSS to MLSS ratio to be 0.8. HRT shall be between 12 to 13 hrs and SRT suitable for fully digested sludge. It should have all other related works as per detailed specification. In case CASP is designed to achieve N,P removal HRT shall be between 15-18 hrs and SRT shall be suitably provided to a.	9	5	3			
	5. Chlorine Contact Tank Designing, providing and constructing chlorine contact chamber of adequate capacity to deal with 1 DWF average flow. The chlorine contact tank should be 30 min capacity, during average flow to achieve 99.99% coliform reduction. Chlorine dose shall be maintained as per standard provisions, including designing, providing and constructing water supply provision for chlorination including providing dewatering and bypass arrangement, jointing to final effluent mains and outlet weir, etc. complete. The effluent quality should match with the standards laid down by Maharashtra Water Pollution Control Board and as per obligatory provision and as detailed specification and as directed by Engineer-in-charge.						

).	Description	Unit	Rate (Rs.	.) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
	 <u>6. Chlorinator and Chlorinator Room /Tonner</u> <u>Room</u>. Designing, providing and constructing chlorinators vacuum type 2 Nos. with auto switchover facility and having capacity for dosage of adequate chlorine to ensure 99.99% coliform reduction as per obligatory provisions and detailed specifications with necessary provision of having chlorinator room of adequate size. The chlorinator equipment shall include cost of chlorine cylinders / tonner piping, valves, measuring and controlling equipments, safety devices, lifting equipments, etc. complete as per IS-10553 (Part II) 1982. The tonner room should have minimum 3 MT capacity hoist for loading and unloading facility. Tonner storage should be distinctly isolated and should be for minimum storage space as directed in the design specification and as per Gas Laws 1981 and Factory Act shall be provided. All other matching amenities shall be provided. 5 MT gantry rail shall be provided for full length of tonner room at 6 m height from level of tonner room, with outlet chamber and treated effluent outlet channel, etc. complete as per detailed specification. 7. Sludge Sump Designing, providing and constructing of sludge sump and pump house of appropriate size with pumps, ceiling height minimum 6 m over sump for discharging sludge to centrifuge using Cl pipe, etc. complete as per detailed specification. 8. Sludge Centrifuge Platform withCentrifuges Designing, providing, constructing and installing including foundation etc., sludge centrifuge to handle the sludge flow of 1 day in 20 hours per unit with sludge dewatering unit, drain etc. complete as per specification. Sludge centrifuges with the necessary arrangement, as per detailed specification mentioned in tender and obligatory provisions to be provided with satisfactory functioning. 		3	3	2	
	9. Outfall Sewer Designing, providing and constructing appropriate outfall sewer of RCC NP2 pipe, to discharge treated effluent from outlet chamber after chlorination tank to the local nallah at the point shown on the drawing including necessary chamber for inspection and cleaning including necessary excavation,					
	dewatering, refilling, concrete encasing / bedding concrete steps to reach the nallah bed level, pitching and energy dissipation chamber in nallah portion, etc. complete upto 50 m length RCC NP2 pipe line and including all above items.					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour	
	10. Piping Work in CI-LA class including Sluice Valves, Reflux Valves, MS Gates Providing, laying and jointing pipes other than those already included in the above items for interconnection, bypass drains, etc. of all units including adequate number of manhole chambers. The item includes excavations, refilling and hydraulic testing of pipes, valves, gates, accessories and cost of jointing materials. The items includes required channels with gates for interconnection of units, bypass drains, etc. for all units as directed, etc complete as per detailed specifications.						
	11. Administrative Building cum Laboratory (G+1) Designing, providing and constructing administrative building, office cum laboratory including stores. This shall be a building having appropriate carpet area at ground floor and at first floor complete as per specifications including necessary excavation, foundation in RCC M-200 framed structure BB masonry (IInd class in C.M. 1:6), 20 mm cement plaster in CM 1:3 inside and outside painting. Aluminium door and window with glass panels, mosaic tile flooring and skirting and all other allied items, fixtures, fastening, electrification arrangement, water supply arrangement, etc. complete.	1	3	S'	V	> >	
	The building will have laboratory on upper floor of administrative building and should be so centralized that it should not be attached with any unit but should have complete control of every unit as per laboratory equipment, beautification, telephone and intercom arrangement and wireless system.						
	Capacity of Plant in MLD , Area required in Ha., No. of Basins	Unit					
	1 0.16 2	MLD	395.87				-
	2 0.20 2	MLD	264.71				-
	5 0.40 2	MLD	166.33				1
	10 0.70 2	MLD	135.94				-
	15 0.75 2	MLD	119.73				1
	20 0.80 4	MLD	113.55				-
	25 1.00 4	MLD	110.64				-
	30 1.20 4	MLD					1
	40 1.60 4	MLD	104.36				4
	50 1.75 4	MLD	98.07				1
	60 1.90 4	MLD	95.76				-
	75 2.25 4	MLD	87.96				4
	100 2.40 6	MLD	85.72				4
	125 3.00 6	MLD	82.00				4
	150 3.50 6	MLD	78.91				4
			76.73				J

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.)) 2024-25	
			Complete	Labour	Complete	Labour	जीवन)
	NOTES						(5 -
а	These Rates are for Civil Works, in M30 grade RCC.						
b	Water Table is considered at 5 m below ground level.						Atevan
С	Soil bearing capacity considered as 20 T/m ² at 1.5 m below ground level.						
d	OPC has been considered for costing purposes.						1
	All civil items, electrical, piping, valves, pumps, motors, blowers, etc. are considered as per MJP Schedule of Rates.						
f	I.Nos.1, 2 include sludge drying beds instead of sludge centrifuge and DWPE dosing system.				N.		
g	I.Nos.1, 2, 3 include NaOCI dosing system instead of Gas Chlorination.			1		è]
h	I.Nos.1, 2, 3 do not include Lab and Lab Equipments.]

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SECTION - K (I) RCC GSRS AND SUMPS



Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
1	Designing (aesthetically), and		Complete	Labour	Complete	Labour
	<u>constructing RCC ground service reservoirs</u> <u>/ RCC sumps in M-300 mix</u> of required capacity including excavation in all types of strata, foundation concrete, container walls, bottom slab top RCC roof slab / or dome, 20 mm thick cement plaster with water proofing compound in CM 1:3 proportion to inside face of the container, including epoxy paint from inside including refilling and disposing of surplus stuff within lead of 50 M, all labour and material charges, for laying and jointing of pipe assembly for inlet, outlet washout, over flow and bypass arrangement consisting of C.I. M.S. D/F. pipes, specials and valves of given diameters, providing and fixing accessories such as M.S. ladder inside and outside, C.I. Manhole frame and cover, water top slab, B.B. masonry chamber for all valves, ventilating shafts, including giving satisfactory hydraulic test and water tightness test as per IS code and providing three coats of cement paints to all exposed surface of structure including roof surface etc. complete as per design data, criteria, obligatory requirements and detailed specifications. Anti-termite treatment shall be given for underground portion of the structure.		5	3	20	
	Notes	-6				
1)	The design shall be in accordance with various relevant I.S. specification (I.S. 456/1978, I.S. 875 - 1987, I.S. 3370 -1965 or revised.)	,				
2)	Only M.S. bars grade I conforming to I.S. 432 part-I or high yield strength deformed bars conforming to I.S. 1786 or I.S. 1139 shall be used. Grade -II M.S. bars shall not be used.					
3)	Entire structure shall be in M-300 only.					
4)	The scope of pipe assembly work shall be upto 5 metre beyond outside face of the wall, cost of pipes valves and specials is not included in the rate but labour cost for laying and jointing is included					
5)	The G.S.R. / Sump above 15 lakh litres capacity shall be in two compartment.					
6)	The Job includes designing the structure for uplift pressure and dewatering if required during entire execution and disposal of surplus excavated stuff within lead of 50 metres as directed by Engineer-in-charge. If uplifts considered in design, then these rates shall be					
7)	increased by 7.5%. G.S.R. outlets shall be with bell mouth of approved pattern in bottom slab and cost of designing bell mouth is included in the rate. Sump well includes cost of suction pit required at bottom.					

Sr.	Description	Unit	Rate (Rs) 2023-24	Rate (Rs.) 2024-25
No.			Complete	Labour	Complete	Labour
8)	For pipe diameters upto 300 mm only CI pipes and CI specials shall be used. For pipe diameters above 300 mm, M.S. pipes and specials minimum 10 mm thick shall be used with proper anticorrosive epoxy treatment from					
9)	inside and outside. Cost of pump house is not included in these rates.					
10)	Above rates are applicable for Seismic Zones 2, 3 and 4.					
11)	75% part rate shall be payable for reinforcement, concrete and plastering items of all types of G.S.R.s and sumps till satisfactory hydraulic testing for water tightness test is given and till that work shall be treated as incomplete.			(D	ζ
	Note : Conditions from Sr. No. 1 to 11 shall form a part and parcel of tender and must be included in the draft tender papers for work of R.C.C. GSRs and sumps.		0	3		
	Rates for RCC GSRs and Sumps		~	1		
1)	Upto 25,000 litres	Lit	19.35	7.59		
2)	Cost of 25,000 litres capacity	Job	483748.00	189787.00		
3)	Add for capacity above 25,000 upto 50,000 litres	Lit	11.48	4.38		
4)	Cost of 50,000 litres capacity	Job	770682.00	299172.00		
5)	Add for capacity above 50,000 upto 75,000 litres	Lit	9.33	3.62		
6)	Cost of 75,000 litres capacity	Job	1003880.00	389723.00		
7)	Add for capacity above 75,000 upto 1,00,000 litres	Lit	8.26	3.24		
8)	Cost of 1,00,000 litres capacity	Job	1210287.00	470735.00		
9)	Add for capacity above 1,00,000 upto 1,50,000 litres	Lit	8.04	3.16		
10)	Cost of 1,50,000 litres capacity	Job	1612485.00	628935.00		
11)	Add for capacity above 1,50,000 upto 2,00,000 litres	Lit	7.02	2.77		
12)	Cost of 2,00,000 litres capacity	Job	1963580.00	767612.00		
13)	Add for capacity above 2,00,000 upto 3,00,000 litres	Lit	6.49	2.54		
14)	Cost of 3,00,000 litres capacity	Job	2612883.00	1021926.00		
15)	Add for capacity above 3,00,000 upto 5,00,000 litres	Lit	5.27	2.08		
16)	Cost of 5,00,000 litres capacity	Job	3666186.00	1438189.00		

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
110.			Complete	Labour	Complete	Labour
17)	Add for capacity above 5,00,000 upto 10,00,000 litres	Lit	4.67	1.85		
18)	Cost of 10,00,000 litres capacity	Job	5999196.00	2362972.00		
19)	Add for capacity above 10,00,000 upto 15,00,000 litres	Lit	3.64	1.42		
20)	Cost of 15,00,000 litres capacity	Job	7821538.00	3073157.00		
21)	Add for capacity above 15,00,000 litres	Lit	2.95	1.20		
	Note : 10% shall be added over the cost of GSR for sump where overhead pump house is proposed.			0	D	ς



SECTION - K (II) RCC ESRS

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs	.) 2024-25
1	Designing (aesthetically), and constructing RCC elevated service reservoirs of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically not more than 4.5 metres centre to centre for ESR having capacity upto 500 cum and not more than 6 m c/c for ESRs having capacity above 500 Cum including excavation in all types of strata, foundation concrete, cement plaster with water proofing compound to the inside face of the container including refilling disposing off the surplus stuff within a lead of 50 metres, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe		Complete	Labour	Complete	Labour
	assembly of inlet, outlet, washout, overflow and bypass arrangements as per departmental design, providing and fixing accessories such as M.S. ladder, C.I. manhole frame and covers, water level indicators, lightening conductor, G.I. pipe railing around walk way and top slab, providing spiral stair case from ground level to roof level, M.S. grill gate of 2 M height with locking arrangement of approved design, B.B. masonry chambers for all valves, ventilating shafts, providing and applying three coats of cement paint to the structure including roof slab, epoxy painting to internal surface and anti-termite treatment for underground parts of the structure and giving satisfactory water tightness test as per I.S. code. The job to include painting the name of the scheme and other details on the reservoir as per the directions of Engineer-in-Charge.	2	S	3	V	
	Notes					
1)	The design of the structure be in accordance with relevant I.S. specification (I.S. 3370 - 1965 or revised.)					
2)	The design shall satisfy the stipulations as per I.S. 1893 - 1984 and I.S. 13920 / 1993 for seismic force and I.S 11682 / 1985 for R.C.C. staging of overhead tanks.					
3)	For design having more than 6 columns, provision of internal bracing is obligatory. External bracings is also obligatory.					
4)	The entire structure shall be in M-300 mix only.					
5)	Plain round mild steel bars grade-I conforming to I.S. 432 part-I or high yield strength deformed bars conforming to I.S. 1786 or I.S. 1139 shall be used, grade-II mild steel bars will not be allowed.					
6)	Irrespective of the type of foundation proposed in the design, one set of bracing be provided at the ground level.					
7)	These rates include providing M.S. ladder for E.S.R.s upto 2 lakh litres capacity and providing spiral staircase for E.S.R. above 2 lakh litres capacity.					
8)	Staging shall have to be designed with stresses of M- 200 concrete for ESR. However all RCC construction should be done in M-300.					
9)	These rates are including the cost of uplift pressure if any and entire dewatering during execution. In case of water logging area where water is stretch at shallow depth, extra provision of dewatering shall be made as per site condition.					

Br. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
10)	All conditions given in the Member Secretary's					
	Circular No. MJP / TS-I / 350 / 1668 dt. 2-8-97 and					
	MJP / S-I / 350 / 2127 dt. 13-7-99 shall be strictly					
	followed and additional cost, if any, due to these					
	conditions is included in the rates mentioned below.					
1)	75% part rate shall be payable for reinforcement			-		
,	concrete and plastering items of containers of E.S.R.					
	till satisfactory hydraulic testing for water tightness is					
	given; and till that work shall be treated as incomplete.					
12)	The rates indicated in the table are excluding the cost					
'	of pipes, specials and valves required for inlet, outlet,					
	washout, overflow and bypass arrangement. The				0.0	
	scope of work, however, includes cost of erecting,					
	laying and jointing of pipes and valves including cost				- 13	0
	of jointing materials upto 5 M beyond outer face of				NV	
	outermost column.					
13)	For ESR upto 500 cum capacity C.I. double flanged					
,	pipes upto 300 mm dia shall be provided and C.I.				V	
	specials shall be used. For ESR above 500 cum		1	7.1	- W	
	capacity C.I./M.S. pipe assembly with minimum 8 mm		1.1			
	thickness upto 500 mm dia and minimum 10 mm		-			
	thickness above 500 mm dia can be used with proper		()			
	anti-corrosive epoxy treatment from inside and outside.			10		
		6		1		
14)	Below mentioned rates are for foundations with					
,	individual footing with bearing capacity of 20 tonnes					
	per square metre. For raft foundations, these rates		-			
	shall be increased by 7.5% where safe bearing		<i>a</i>			
	capacity (SBC) is 5 MT per sqm and by 5% where					
	SBC is more than 5 MT/sqm and upto 10 MT/sqm.	- V.				
	This % of 5% or 7.5% is applicable for estimation of					
	amount of lumpsum item of ESR. For extra item due					
	to change from individual foundation to raft, actual					
	increase in concrete and steel be paid as per relevant					
	SSR item.					
15)	The rate shall be increased by 30% for bearing piles					
- /	upto depth of 10 M and for further increased in depth					
	by 5 M each, it shall be increased by another 10%.					
	These rates are applicable where raft is not feasible.					
	For pile foundations sulphate resistant cement shall					
	only be used. Single pile for the column is not					
	permitted, group of piles shall be designed with pile					
	cap for each column of ESR.					
16)	The rates are applicable for staging height of 12 M.					
	These rates shall be increased or decreased for per					
	metre variation in this staging height as below					
	12 to 16 M staging - 2% per metre					L
	16 to 20 M staging - 3% per metre					
	20 M and above - 4% per metre					
	For 17 M staging height, percentage calculation will					
	be like below :					
	12 to 16 M 4 x 2 = 8%					
	16 & 17 M 1 x 3% = 3% Total = $11%$					
	For 21 M staging height, percentage calculation will					
	be like below : 12 to 16 M 4 x 2 = 8%					
	16 to 20 M 4 x 3% = 12%				<u> </u>	
	$20\& 21 \text{ M} - 1 \times 4\% = 4\% \text{ Total} = 24\%$					
17)	Following rates are for seismic zone III. For zone IV,					
,	these rates shall be increased by 5% and for zone II,					
	these rates shall be decreased by 5%. Concerned					
	Executive Engineer shall confirm the seismic zone for					
	the scheme from seismic zones plan before					
	•					
	estimation and adopt appropriate rates as per actual					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
INU.			Complete	Labour	Complete	Labou
1)	Notes Conditions from Sr. No. 1 to 17 shall form a part and parcel of the tender and must be included in the draft tender papers for works of R.C.C. E.S.R.					
	Rates for RCC ESRs					
1)	Upto 25,000 litres	Lit	39.02	13.02		
2)	Cost of 25,000 litres capacity	Job	975465	325464		
3)	Add for capacity above 25,000 upto 50,000 litres	Lit	20.39	6.49		
4)	Cost of 50,000 litres capacity	Job	1485227	487737	- D.	
5)	Add for capacity above 50,000 upto 75,000 litres	Lit	14.40	4.64		E.
6)	Cost of 75,000 litres capacity	Job	1845104	603790	NV	×
7)	Add for capacity above 75,000 upto 1,00,000 litres	Lit	13.40	10.93	1	
8)	Cost of 1,00,000 litres capacity	Job	2180003	877059	V	
9)	Add for capacity above 1,00,000 upto 1,50,000 litres	Lit	10.57	3.42		
10)	Cost of 1,50,000 litres capacity	Job	2708273	1048185		
11)	Add for capacity above 1,50,000 upto 2,00,000 litres	Lit	9.62	3.80		
12)	Cost of 2,00,000 litres capacity	Job	3189433	1238379		
13)	Add for capacity above 2,00,000 upto 2,50,000 litres	Lit	8.53	3.06		
14)	Cost of 2,50,000 litres capacity	Job	3615901	1391421		
15)	Add for capacity above 2,50,000 upto 3,00,000 litres	Lit	7.73	3.24		
16)	Cost of 3,00,000 litres capacity	Job	4002252	1553527		
17)	Add for capacity above 3,00,000 upto 4,00,000 litres	Lit	7.58	2.90		
18)	Cost of 4,00,000 litres capacity	Job	4760006	1843429		
19)	Add for capacity above 4,00,000 upto 5,00,000 litres	Lit	6.85	2.51		
20)	Cost of 5,00,000 litres capacity	Job	5445500	2094609		
21)	Add for capacity above 5,00,000 upto 7,50,000 litres	Lit	6.67	2.62		
22)	Cost of 7,50,000 litres capacity	Job	7113764	2748954		
23)	Add for capacity above 7,50,000 upto 10,00,000 litres	Lit	6.75	2.71		
24)	Cost of 10,00,000 litres capacity	Job	8800094	3426176		
25)	Add for capacity above 10,00,000 upto 15,00,000 litres	Lit	6.02	2.32		
26)	Cost of 15,00,000 litres capacity	Job	11807722	4584093		
27)	Add for capacity above 15,00,000 upto 20,00,000 litres	Lit	5.52	2.16		
28)	Cost of 20,00,000 litres capacity	Job	14568489	5664729		
29)	Add for capacity above 20,00,000 upto 25,00,000 litres	Lit				
30)	Cost of 25,00,000 litres capacity	Job				

Description	Unit	Rate (Rs.)) 2023-24	Rate (Rs.) 2024-25
		Complete	Labour	Complete	Labour
Designing (aesthetically), and constructing RCC elevated service reservoirs with Zinc - Alume container of following capacity with RCC staging consisting of columns, internal and external bracings spaced vertically not more than 4.5 metres centre to centre for ESR having capacity upto 500 cum including excavation in all types of strata, foundation concrete, including cost of supply and installation of prefabricated water storage bolted tanks as container to be placed over cast in situ RCC bottom slab or precast bottom slab as per specifications & standards of all related IS codes, ready to assemble construction consisting of outer wall surface made out of special grade hot dip aluminum - Zink alloy, metallic factory coated steel confirming to IS-15961- 2012 minimum thickness of 0.6 mm. The inner surface should be provided with liners of minimum 0.6 mm thickness of reinforced polyethylene or polypropylene or metallocene material suitable for dinking water purpose. Top cover shall be of polyethene tape monophylament yarn or woven polypropylene or corrugated G.I. Sheets Rate include cost valves of standard quality, Stainless steel ladder inside container, water level indicator, water tightness test, transportation up to site of work and all taxes etc complete including refilling disposing off the surplus stuff within a lead of 50 metres, all labour and material charges including lowering, laying, erecting, hoisting and jointing of pipe assembly of inlet, outlet, washout, overflow and bypass arrangements up to 5 m from periphery of tank as per departmental design, providing and fixing accessories such as M.S. ladder for outside container with both side Gl pipe railing , lightening conductor, G.I. pipe railing around walk way and top slab, providing spiral stair case from ground level to roof level, M.S. grill gate of 2 M height with locking arrangement of approved design, B.B. masonry chambers for all valves, ventilating shafts, providing and applying three coats of Acrylic emulsion with silicon additives paint to	ł	S	3	2	
The design of the structure be in accordance with relevant I.S. specification (I.S. 3370 -					
1965 or revised.) The design shall satisfy the stipulations as per I.S. 1893 - 1984 and I.S. 13920 / 1993 for seismic force and I.S 11682 / 1985 for R.C.C. staging of overhead tanks, Zinc Alume/ Galvalume sheet - IS 15961, Hot deep galvanising- IS 2629, 2633, 6745, 4759, Bolts - IS 1367 Part 3:2002 class 8.8 (Carbon steel quenched and tempered), Nut- IS 1367 Part 6:1997, Flanges - IS 2062:2011 BS 10 (E table), Pipe - IS 1239:2004 Part 1, other steel part - IS 2062 Part					

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25
NO.			Complete	Labour	Complete	Labour
3	For design having more than 6 columns, provision of internal bracing is obligatory. External bracings is also obligatory.					
4	The entire structure shall be casted in M-300 mix only.					
5	Plain round mild steel bars grade-I conforming to I.S. 432 part-I or high yield strength deformed bars conforming to I.S. 1786 or I.S. 1139 shall be used, grade-II mild steel bars will not be allowed.					
6	Irrespective of the type of foundation proposed in the design, one set of bracing be provided at the ground level.				1	6
7	These rates include providing, M.S. Ladder for E.S.R's upto 2 lakhs liters capacity and providing sprial staircase for E.S.R. Above 2 lakhs liters capacity.			(V	
8	Staging shall have to be designed with stresses of M-200 concrete for ESR. However all RCC construction should be done in M-300.		(X	V	
9	These rates are including the cost of uplift pressure if any and entire dewatering during execution. In case of water logging area where water is stretch at shallow depth, extra provision of dewatering shall be made as per site condition.		2			
10	All conditions given in the Member Secretary's Circular No. MJP / TS-I / 350 / 1668 dt. 2-8-97 and MJP / S-I / 350 / 2127 dt. 13-7-99 shall be strictly followed and additional cost, if any, due to these conditions is included in the rates mentioned below	l	$\mathcal{D}_{\mathbf{x}}$			
11	75% part rate shall be payable till satisfactory hydraulic testing for water tightness is given; and till that work shall be treated as incomplete.					
12	The rates indicated in the table are excluding the cost of pipes, specials and valves required for inlet, outlet, washout, overflow and bypass arrangement. The scope of work, however, includes cost of erecting, laying and jointing of pipes and valves including cost of jointing materials upto 5 M beyond outer face of outermost column.					
13	C.I./D.I. double flanged pipes upto 300 mm dia shall be provided and C.I./D.I. specials shall be used with proper anti-corrosive epoxy treatment from inside and outside.					
14	Below mentioned rates are for foundations with individual footing with bearing capacity of 20 tonnes per square metre. For raft foundations, these rates shall be increased by 7.5% where safe bearing capacity (SBC) is 5 MT per sqm and by 5% where SBC is more than 5 MT/sqm and upto 10 MT/sqm. This % of 5% or 7.5% is applicable for estimation of amount of lumpsum item of ESR. For extra item due to change from individual foundation to raft, actual increase in concrete and steel be paid as per relevant DSR item.					

Sr. No.	Description	Unit	Rate (Rs.	.) 2023-24	Rate (Rs.) 2024-25
INU.			Complete	Labour	Complete	Labour
15	The rate shall be increased by 30% for bearing piles upto depth of 10 M and for further increased in depth by 5 M each, it shall be increased by another 10%. These rates are applicable where raft is not feasible. For pile foundations sulphate resistant cement shall only be used. Single pile for the					
	column is not permitted, group of piles shall be designed with pile cap for each column of ESR.					
16	The rates are applicable for staging height of 12 M. These rates shall be increased or decreased for per metre variation in this staging height as below					
	12 to 16 M staging - 2% per metre					
	16 to 20 M staging - 3% per metre				. 13	<u> </u>
	20 M and above - 4% per metre					
	For 17 M staging height, percentage					
	calculation will be like below : 12 to 16 M 4 x 2 = 8%				1	
	12 to 10 M 4 x 2 = 6% 16 & 17 M 1 x 3% = 3% Total = 11%			- /		
	For 21 M staging height, percentage			1	. V	
	calculation will be like below :		- D			
	12 to 16 M 4 x 2 = 8%					
	16 to 20 M 4 x 3% = 12%					
	20& 21 M 1 x 4% = 4% Total = 24%			10		
	For the dome type GI corrugated roof structure with hot dip galvanized trusses with GI manhole for access for cleaning and maintainance, 1% extra shall be added.	5	3'			
18	For heavy duty five layer polypropylene reinforced liner with mettallocene contact layer having a minimum thickness of 1 mm- 1% extra shall be added.	V	P			
	Following rates are for seismic zone III. For zone IV, these rates shall be increased by 5% and for zone II, these rates shall be decreased by 5%.					
	Concerned Executive Engineer shall confirm the seismic zone for the scheme from seismic zones plan before estimation and adopt appropriate rates as per actual seismic zones. (Seismic maps attached in this SSR).					
	Notes					
1	Conditions from Sr. No. 1 to 19 shall form a part and parcel of the tender and must be included in the draft tender papers for works of R.C.C Zinc Alume Container E.S.R.					

The Jeevan Provide

1) 2)	Rates for RCC - Zinc Alume Container ESR's Upto 25,000 litres		Complete 39.02	Labour	Complete	Labo
1) 2)	Upto 25,000 litres		39.02			
2)			39.02			
			00.02	13.02		
3)	Cost of 25,000 litres capacity		975465	325464		
3)	Add for capacity above 25,000 upto 50,000 litres		20.39	6.49		
· ·	Cost of 50,000 litres capacity		1485227	487737		
5)	Add for capacity above 50,000 upto 75,000 litres		14.40	4.64		
6)	Cost of 75,000 litres capacity		1845104	603790		
7)	Add for capacity above 75,000 upto 1,00,000 litres		13.40	10.93		
8)	Cost of 1,00,000 litres capacity		2180003	877059	- N	
9)	Add for capacity above 1,00,000 upto 1,50,000 litres		10.57	3.42		E.
10)	Cost of 1,50,000 litres capacity		2708273	1048185	NV	
11)	Add for capacity above 1,50,000 upto 2,00,000 litres		9.62	3.80	1.1	
12)	Cost of 2,00,000 litres capacity		3189433	1238379		
13)	Add for capacity above 2,00,000 upto 2,50,000 litres		8.53	3.06		
14)	Cost of 2,50,000 litres capacity		3615901	1391421		
15)	Add for capacity above 2,50,000 upto 3,00,000 litres		7.73	3.24		
16)	Cost of 3,00,000 litres capacity	1	4002252	1553527		
17)	Add for capacity above 3,00,000 upto 4,00,000 litres		7.58	2.90		
18)	Cost of 4,00,000 litres capacity		4760006	1843429		
19)	Add for capacity above 4,00,000 upto 5,00,000 litres		6.85	2.51		
20)	Cost of 5,00,000 litres capacity		5445500	2094609		
	Rest					



SECTION - K (III) ANCILLARY ITEMS FOR RESERVOURS

Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
1	Providing and fixing in position copper					
	lightening conductor including copper rod of 20					
	mm dia as per upper terminal 1.5 M long with a					
	knob at end and with conical spike at top, copper					
	tape conductor 20 x 3 mm size, copper earth plate					
	of 3 mm thick and 0.81 sqm. in area, clamps at 1					
	M centre to centre including, necessary					
	excavation, laying and fixing the conductor,					
	providing and fixing 40 mm G.I. pipe upto 3 M					
	height from ground and 0.5 M below ground					
	including making all connections, filling earthing					
	pit with charcoal, salt, etc. & refilling & watering, etc. complete as per specifications laid down in				- 13	¢
					$\neg v$	
:)	relevant I.S. codes.		14897	1122		
i)	For tape of 10 M length	No	14097	1132	1	
ii)	Rebate/ extra rate per metre length or part thereof		394	15		
		Mtr.	1			
	over and above initial length of 10 M.					
2	Providing and fixing in position copper		\cap	~		
	lightening conductor including copper rod of 20					
	mm dia upper terminal 1.5 M long with a knob at			1		
	the end with a conical spike at top, aluminium					
	tape conductor 20 x 3 mm size, copper earth plate	\sim				
	of 3 mm thick and 0.81 sqm. in area, clamps at 1					
	M centre to centre including, necessary	1	10			
	excavation, laying and fixing the conductor,	- L				
	providing and fixing 40 mm G.I. pipe upto 3 M	- V.				
	height from ground and 0.5 M below ground					
	including making all connections, filling earthing	r				
	pit with charcoal, salt, etc. & refilling & watering,					
	etc. complete as per specifications laid down in					
	relevant I.S. codes.					
i)	For tape of 10 M length	No	12411	1060		
ii)	Rebate/ extra rate per metre length or part thereof	Mtr.	136	5		
2	over and above initial length of 10 M.			-		
3	Providing, hoisting and fixing in position					
	inverted 'J' type 100 mm dia C.I. cowl type					
	ventilators with mosquitoproof aluminium mesh at	No	2250	1090		
	top in including applying 2 coats of anti-corrosive	No	2352	1090		
	paint, etc. complete as directed by Engineerin-					
4	charge, weighing not less than 35 kg. Providing, hoisting and fixing in position C.I.					
	manhole, frame and cover of best quality and					
4						
	of required size and shape with locking					
	arrangements including applying 2 coats of anti-					
			1			
<u> </u>	corrosive paint, etc. complete.		0000	0.17		
i) ii)	corrosive paint, etc. complete. 90 x 60 cm size and weight 35 kg. Rate on weight basis for any size and type of	No	2898	217		

Sr.	Description	Unit	Rate (Rs	s.) 2023-24	Rate (Rs.) 2024-25
<u>10.</u> 5	Providing and fixing in position M.S. ladder 0.50 M wide consisting of 75 x 10 mm M.S. flats as stringers and 16 mm dia M.S. bars in double rows as steps placed at 25 cm c/c including cost of material and labour involved, welding, anchoring and applying 3 coats of anticorrosive paint, etc. complete as directed by Engineer-in- charge.	RMT	1493	252		
	Providing and applying epoxy paint of approved make (Shalimar, Ciba or Mahindra & Mahindra) to concrete surface for RCC ESR or GSR or any other structure including cleaning the surface by scrapping and air blowers to the satisfaction of Engineer-in-charge, necessary scaffolding, etc. complete with all leads and lifts and giving satisfactory hydraulic test for water tightness as per I.S. codes. For new surfaces - Two coats		809	420	20	6
i)	For old surfaces - Two coats	Sqm	912	420 501		
ii) 7	Providing and constructing RCC spiral	Sqm	912	501		
	staircase in M-150 mix concrete at site of work and consisting of central vertical column of 400 mm dia and steps in RCC M-150, tie members at each brace level, RCC parapet wall 80 cm high including cost of all labour and material involved, cost of scaffolding, centering, shuttering, curing, finishing in CM 1:3 proportion including RCC M- 150 footing foundation, its excavation, refilling and cleaning the site, etc. complete as per type design, with 3 coats of cement paint.	RMT	7480	616		
8	Providing and constructing RCC ventilating shaft of diameters and height mentioned below with required number of RCC 15 x 15 cm size columns and RCC circular slab or dome over the pillars in M-150 including cost of all material and labour, providing and fixing steel or wooden frame and providing and fixing G.I. flyproof mesh of 26 gauge and providing and applying in 3 coats of oil paint to wooden or steel frame and cement paint to concrete structure, etc. complete as directed by Engineer-in-charge.					
i)	0.9 M dia x 1.35 M height	No	7101	788		
ii)	1.2 M dia x 1.80 M height	No	9524	1060		
iii)	1.5 M dia x 2.25 M height	No	14920	1675		

							And And And And And And And And And And
Sr. No.	Description	Unit	Rate (Rs	.) 2023-24	Rate (Rs.) 2024-25	
9	Providing and installing mercury water level indicator for RCC ESR and wash water tank site as per instructions of Engineer-in-charge at ground level of the tank or nearing pump house or room for RCC ESR having 15 mtrs. stage height and 5 mtrs. water storage height with indication of water height in storage tank in metre and 1/10th of metre including providing and installing 15 mm dia class 'B' G.I. piping with necessary accessories from bottom of the tank upto the instrument as per instructions of Engineer-in- charge.	No	23370	3885	~		
	For extra stage height over 15 mtrs. or part thereof and water depth over 5 mtrs. or part thereof for Item No. 9.	Mtr.	1214	205	יר		
	Providing, erecting, installing and commissioning Barometric leg chlorination system for water treatment plant upto 5 MLD capacity as per manufacturer's specification with all required materials viz. 15 kg. pressure yellow PVC pipe, specially prepared chamber, mixing chamber, scrubber unit, gas pressure flexible pipe, brass nozzle nipple, electronic alarm unit, PPM dose, indicator of 25 mm dia, 4 mm thick glass tube borosil, gas unit opening spanner 3 hole type, instruction board, aluminium pipe upto sump (max. length 15 M) including civil works wherever required for above materials, fittings, including satisfactory test and trial at work site, etc. complete. (Item do not include construction of chlorine gas room of 3.0 x 3.0 M or adequate size) as per drawing attached. For 5.0 Mld capacity		141944	13952			
	Add / deduct per Mld or part of per Mld capacity	No	141944	13852			-
	Providing and fixing water level indicator upto 5 M height including M.S. enamelled gauge plate 300 mm wide and 3 mm thick, copper float, providing and fixing required accessories such as pointer, pulleys, nylon thread including cost of all material, labour, etc. complete.	No	4997 11324	488 1984			
12	<u>Providing and fixing water level indicator</u> <u>upto 5 M height</u> including M.S. enamelled gauge plate 150 mm wide and 3 mm thick, copper float, providing and fixing required accessories such as pointer, pulleys, nylon thread including cost of all material, labour, etc. complete.	No	7244	2101			



SECTION - L CHAMBERS, MANHOLES & DRAINAGE DROPS

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25
			Complete	Labour	Complete	Labour
1	Valve Chamber with Precast RCC Covers Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion precast RCC frame and cover, etc. complete as directed by Engineer-in-charge.					
	Note : Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M.					
A	As above of 60 x 45 cm internal size and depth upto 0.9 M with precast R.C.C. slab cover.	No	7386	1963	N	-
a)	Add for every increase in depth of 30 cm or part there of	30 cm depth	1626	468	V	
В	As above of 90 x 45 cm internal size and depth upto 1.2 M with precast R.C.C slab cover.	No	10942	2967		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1942	561		
С	As above of 90 x 60 cm internal size and depth upto 1.2 M with precast R.C.C slab cover.	No	11899	3244		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2125	609		
	As above of 90 x 90 cm internal size and depth upto 1.2 M with precast R.C.C slab cover.	No	13786	3711		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2393	696		
E	As above of 90 cm internal dia. size and depth upto 1.2 M with precast R.C.C slab cover.	No	10801	3614		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1948	654		
F	As above of 1.2 x 1.2 M internal size and depth upto 1.2 M with precast R.C.C slab cover.	No	18237	5039		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2985	887		
G	As above of 1.5 x 1.5 M internal size and depth upto 1.5 M with precast R.C.C slab cover.	No	27729	6156		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	3857	996		
2	Valve chamber with cast iron manhole frame and covers Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion, 12 mm thick cement plaster in CM 1:4 proportion on both sides with providing and fixing C.I. manhole frame and cover in RCC 1:2:4 coping or RCC 1:2:4 proportion x 15 cm thick slab, etc. complete as directed by Engineer-in-charge.					

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2024-25		
NU.			Complete	Labour	Complete	Labour	
	Note : Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M.						
A	As above of 60 x 45 cm internal size and depth upto 0.9 M with 60 x 45 cm size CI manhole frame and cover of 40 kg.	No	10986	1922			
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1533	449			
	As above of 90 x 45 cm internal size and depth upto 1.2 M with 90 x 45 cm size CI manhole frame and cover of 40 kg.	No	13915	2718	1		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1770	517	N		
С	As above of 90 x 60 cm internal size and depth upto 1.2 M with 90 x 60 cm size CI manhole frame and cover of 50 kg.	No	15904	3014	V		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1912	564			
D	As above of 90 x 90 cm internal size and depth upto 1.2 M with 53 cm dia CI manhole frame and cover of 90 kg. fixed in RCC slab.	No	22100	3784			
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2333	685			
E	As above of 1.2 x 1.2 M internal size and depth upto 1.2 M with 53 cm dia CI manhole frame and cover of 90 kg. fixed in RCC slab.	No	25807	4769			
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2972	885			
	As above of 1.5 x 1.5 M internal size and depth upto 1.5 M with 53 cm dia CI manhole frame and cover of 90 kg. fixed in RCC slab.	No	33215	6824			
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	3777	1108			
3	Valve chamber with precast steel fibre reinforced concrete frame and covers (S.F.R.C. frame and covers) Providing and constructing B.B. masonry valve chamber with 15 cm thick 1:3:6 proportion PCC bedding, excluding excavation, B.B. masonry in CM 1:5 proportion precast S.F.R.C. frame and cover, etc. complete as directed by Engineer-in-charge.						
	Note : Wall thickness : 0.23 M for depth of 1.2 M and 0.35 M for balance depth exceeding 1.2 M.						
A	As above of 60 x 45 cm internal size and depth upto 0.9 M with S.F.R.C. frame and cover.	No	9955	2154			
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1617	376			
	As above of 90 x 45 cm internal size and depth upto 1.2 M with S.F.R.C. frame and cover.	No	14305	3115			
	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1824	423			
С	As above of 90 x 60 cm internal size and depth upto 1.2 M with S.F.R.C. frame and cover.	No	15371	3426			

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)	2024-25
110.			Complete	Labour	Complete	Labou
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	1951	458		
D	As above of 90 x 90 cm internal size and depth upto 1.2 M with S.F.R.C. frame and cover.	No	19492	4050		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	2283	538		
E	As above of 1.2 x 1.2 M internal size and depth upto 1.2 M with S.F.R.C. frame and cover of size 540 mm dia. fixed in RCC slab.	No	24116	5003		
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	3069	712		
F	As above of 1.5 x 1.5 M internal size and depth upto 1.5 M with S.F.R.C. frame and cover of size 540 mm dia. fixed in RCC slab.	No	32458	6735	Ŋ٧	
a)	Add for every increase in depth of 30 cm or part thereof	30 cm depth	3864	887	V	
4	Providing and fixing in position <u>M.S. air valve boxes</u> <u>fabricated</u> with 2 mm thick M.S. plate, 30 x 30 x 3 mm size M.S. angle frame, concreting in M-150 for fixing the box in position, applying two coats of oil paint, painting chainage, locking arrangement, etc. complete as directed by Engineer-in-charge.		5	C,		
a)	For single ball air valve	No	2675	237		
b)	For double ball air valve	No	3755	487		
5	Providing and fixing <u>C.I. road box</u> including loading, unloading and carting to site of work including all necessary excavation in all types of strata and fixing in murum packing, etc. complete.	-				
a)	100 mm x 225 mm (20 kg)	No	1729	391		
b)	225 mm x 300 mm (40 kg)	No	3408	772		
6	Providing and constructing on sewer, <u>B. B. masonry</u> circular manhole with concentric cone <u>1.2 M dia.</u> at bottom and <u>0.5 M dia.</u> at top and upto a depth of 2.00 M with 23 cm brick work in CM 1:4 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C. C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc. complete as directed by Engineer in-charge.	No	29148	5606		
a)	Rebate for every decrease in depth of 50 cm (Rebate to be taken in proportionate to decerease in depth)	50 cm depth	3912	1458		

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)	2024-25
INO.			Complete	Labour	Complete	Labour
7	Providing and constructing on sewer, <u>B. B. masonry</u> <u>circular manhole concentric cone 1.5 M dia. at</u> <u>bottom and 0.5 M dia. at top</u> and upto a depth of 5.00 M with 23 cm brick work, upto depth of 2 M from top and 35 cm thick brick work for balance depth in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C. C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc. complete as directed by Engineer in-charge.	No	83100	7250	A	
a)	Rebate for every decrease in depth of 50 cm (Rebate to be taken in proportionate to decerease in depth)	50 cm depth	8460	3783	V	
	Providing and constructing on sewer, <u>B.B. masonry</u> circular manhole with concentric cone <u>1.5 M dia</u> . <u>at bottom and 0.5 M dia</u> . <u>at top</u> and upto a depth of 9.00 M with 23 cm brick work, upto depth of 2 M from top and 35 cm thick brick work for depth of 2 M and 45 cm thick brick work for remaining depth upto 9 M in CM 1:4 proportion with 20 mm thick smooth plaster on both sides in CM 1:2 proportion excluding excavation including foundation concrete 250 mm thick and haunches and channels in C.C. 1:2:4 proportion, finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., 1:2:4 coping and providing and fixing approved make and quality S.F.R.C. frame and cover of 56 cm dia. etc. complete as directed by Engineer-in-charge.	No	177345	11493		
a)	Rebate for every decrease in depth of 50 cm (Rebate to be taken in proportionate to decerease in depth)	50 cm depth	10750	5663		
9	Providing and constructing <u>B.B. masonry circular</u> <u>manhole without conical shape</u> excluding excavation, RCC 1:2:4 proportion, 20 cm bedding brick masonry in CM 1:4 proportion, 23 cm thick for 2 M depth from top 35 cm thick for 2 M below it and 45 cm thick for balance depth, RCC slab at top and at 2 M depth from top for supporting brick masonry above it, plastering with smooth finish in CM 1:2 proportion, C.C. 1:2:4 finishing channels in smooth rendering, providing C.I. dapuri type steps each weighing 5.5 kg., providing and fixing S.F.R.C. frame and co ver of 56 cm dia. at top including cost of all materials and labour, etc. complete.					
A	1.00 M dia. x 2 M depth	No	24798	5731		
,	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	3680	974		
В	1.00 M dia. x 3 M depth	No	40893	9435		
a)	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	6375	1526		

No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)) 2024-25
			Complete	Labour	Complete	Labour
С	1.00 M dia. x 4.5 M depth	No	63606	14996		
a)	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	8161	1935		
D	1.50 M dia. x 2 M depth	No	41254	9382		
a)	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	5532	1401		
Е	1.50 M dia. x 3 M depth	No	56060	13152		
a)	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	8493	2082		
F	1.50 M dia. x 4.5 M depth	No	86155	15056		
a)	Rebate for every decrease in depth of 50 cm or part thereof	50 cm depth	10838	2618	V	
10	Drainage Drops Providing 150 mm dia. S.W. or R.C.C. pipes in vertical drop arrangement including providing 150 mm dia S.W. and R.C.C. pipe fixed in B.B. masonry of manhole at the required level including providing 150 mm dia double tee, 150 mm dia right angled bend, encasing in B.B. masonry 1:4 proportion all around the pipe, double tee, bend upto the foundation of manhole, jointing, cutting, filleting including neat cement rendering, plugging the opening with jungle wood knob complete as directed by Engineer-in-charge (0.60 M depth) excluding cost of chamber.	2	2402	473		
a)	Extra for every 0.5 M depth beyond initial depth of 0.60					
,	M.	50 cm depth	873	174		
,			873 3110	174 587		
,	М.	depth				
) 11 a)	M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60	depth No 50 cm	3110	587		
) 11 a)	M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M.	depth No 50 cm depth	3110 1009	587 201		
11 a) 12 a)	M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 250 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60	depth No 50 cm depth No 50 cm	3110 1009 3793	587 201 722		
11 a) 12 a)	M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 250 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M.	depth No 50 cm depth No 50 cm depth	3110 1009 3793 1198	587 201 722 256		
11 a) 12 a) 13 a)	 M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 250 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 300 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M 	depth No 50 cm depth No 50 cm depth No 50 cm	3110 1009 3793 1198 4583	587 201 722 256 864		
11 a) 12 a) 13 a)	 M. As above but for 200 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 250 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. As above but for 300 mm dia pipes and depth 0.60 M Extra for every 0.5 M depth beyond initial depth of 0.60 M. 	depth No 50 cm depth No 50 cm depth 50 cm depth	3110 1009 3793 1198 4583 1347	587 201 722 256 864 271		

P

Sr. No.	Description	Unit			Rate (Rs.)	2024-25
			Complete	Labour	Complete	Labour
a)	Extra for every 0.5 M depth beyond initial depth of 0.60 M.	50 cm depth	2141	415		
16	As above but for 600 mm dia pipes and depth 0.60 M	No	10458	2136		
a)	Extra for every 0.5 M depth beyond initial depth of 0.60 M.	50 cm depth	2469	489		
17	Providing and fixing in position <u>steel fibre reinforced</u> <u>concrete (S.F.R.C.) frame and covers</u> of approved make including loading, unloading, transportation, all taxes, etc. complete as directed by Engineer-in-charge (20 tonnes capacity).			C	D	
a)	540 mm dia	No	3491	775	V	
b)	560 mm dia	No	4569	1043		
c)	90 x 45 cm size	No	3491	775		
d)	90 x 60 cm size	No	3784	838		
e)	60 x 60 cm size	No	3456	766		
f)	60 x 45 cm size	No	2995	665		
18	Providing and fixing intercepting sewer trap including concrete bedding, etc. complete.		~			
a)	150 x 100 mm	No	550	97		
b)	100 x 100 mm	No	393	69		
19	Providing and fixing in position <u>S.W. bends</u> of various size, etc. complete.					
a)	100 mm	No	175	30		
b)	150 mm	No	204	35		
20	Providing and fixing <u>'Y'</u> junction and labour, etc. complete.					
,	Saddle junction 100 x 100 M	No	213	35		
b)	'Y' junction 150 x 150 x 100 mm	No	245	41		
c)	'Y' junction 300 x 300 x 300 mm	No	289	49		
d)	'Y' junction 300 x 300 x 100 mm	No	245	41		
21	Providing and fixing in position <u>A.C. soil ventilators /</u> <u>slotted</u> as necessary and as directed by Engineer-in- charge, etc. complete.					
a)	80 mm	No	207	35		
b)	100 mm	No	252	41		
c)	150 mm	No	357	58		
22	Providing and fixing <u>A.C.</u> <u>soil pipe</u> <u>or downtake pipe</u> with all required fittings, taking hole, etc. complete (as per manufacturer's code of practice).					

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.)) 2024-25
			Complete	Labour	Complete	Labour
a)	80 mm	No	363	61		
b)	100 mm	No	432	71		
c)	150 mm	No	677	110		
23	Providing and fixing <u>Cast Iron soil pipe</u> of 1.8 M length including taking out holes and all required fittings, etc. complete.					
	S/S					
a)	80 mm	No	1257	206		
b)	100 mm	No	1427	236		
	D/S			. 1		
a)	80 mm	No	1357	223		
b)	100 mm	No	1573	259		

SECTION L- CHAMBERS, MANHOLES DRAINAGE DROUPS

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SECTION - M WELL SINKING & RIVER INFILTRATION WORKS

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2023-25
			Complete	Labour	Complete	Labour
1	Providing, constructing <u>coffer dam</u> in river basin / dam storages as per type design including excavation, filling the middle portion with B.C. soil (in gunny bags if required). Providing impervious / semipervious materials on both sides of B.C. soil (in gunny bags if required) including ramming, compacting to the satisfaction of Engineer-in-charge till the completion of work including dismantling coffer dam after completion of works and disposing off the material as directed by the Engineer-in-charge.	Cum	818	28	~	
	Note : Pay line maximum. Top width payable shall be 2 Mtr. and maximum payable side slopes shall be 1.5 horizontal to 1 vertical, if the constructed top width of the side slopes are less, then the measurements at actual are payable. Extra top width or flat slopes are not payable. Contractor is free to use ballies, plastic sheets, piles, pipes, CGI sheets for supporting hearting materials instead of impervious/ semi-pervious hearting materials for which no extra payments shall be payable. 30% payment shall be withheld for dismantling of coffer dam. This foot note shall appear in tender condition. (Type section is shown on last page of type design section of CSR).	5	S	3	2	
2	Providing and fabricating at work shop, carting to site of work, including transport, loading, unloading, hoisting, lowering and setting out at actual site of well, sinking <u>M.S. plate cutting</u> edge for <u>R.C.C. well curb</u> consisting of 350 mm M.S. plate, 10 mm thick, champhering at bottom. Cutting edge should be provided in pieces not less than 2 M in length. Each joint should be plain from outside and jointed by gusset plate 400 x 200 x 12 mm thick M.S. plate with 12 nos. of 20 mm dia. crushank headed bolts (gusset plates from inside) with unequal angle of 90 x 60 x 10 mm should be welded from top of chamfered portion at 14 mm from bottom so that 15 mm side should be in contact with cutting edge with overlap of 300 mm joints. 16 mm dia bar should be welded to M.S. plate 200 mm below the top surface and length should be 1.8 M above plate with a bend 300 mm from plate surface including 3 coats of anticorrosive paint as directed by Engineerin- charge.	Kg	122	27		
3	Providing and filling <u>puddle</u> (selected good impervious clay) in Kolhapur type weirs in proper layers of 15 cm including watering, ramming and compaction, etc. complete with all leads and lifts.	Cum	308	133		

Sr.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2023-25
<u>No.</u> 4	Providing and filling around the well <u>boulders</u> <u>filling</u> of selected variety and size of boulders including cost of all materials, labour, transportation, etc. complete with all leads and lifts.	Cum	974	237		
5	Providing and fixing 80 mm dia <u>A.C./</u> <u>P.V.C.</u> <u>pipe weep holes</u> at 1.5 M c/c staggered including cost of all materials and labour involved with all leads and lifts, etc. complete.	RMT	231	25		
6	Providing and fixing <u>M.S. chequerred plate</u> flooring of following thickness supported on M.S. angles (25 x 25 x 5 mm size) including welding, cutting and fabricating the plates to the required square or rounding shape, making holes in the plate, including providing and applying 3 coats of anticorrosive paint, etc. complete as directed by Engineer-in-charge.		0	3	2	5
a)	6 mm thick	Sqm	5156	726		
b)	8 mm thick	Sqm	6389	710		
7	Providing at site of works ISI standard <u>RCC</u> <u>slotted pipes of NP-3 class</u> including cost of all central and local taxes, octroi, inspection, transportation, etc. complete including cost of RCC collar, etc. complete.	l	/			
a)	450 mm dia	RMT	4411			
b)	600 mm dia	RMT	6612			
8	Lowering, laying and jointing RCC slotted pipes of following diameters including all leads and lifts, cost of jointing material, labour, etc. complete as directed by Engineer-in-charge.					
a)	450 mm dia	RMT	271	166		
b)	600 mm dia	RMT	361	218		
9	Lowering, laying and jointing CI 'B' class connecting mains with rubber gaskets including transportation of pipes from stores to site of works, cost of jointing materials, cost of rubber gasket with all leads and lifts, etc. complete.					
i)	300 mm dia	RMT	312	231		
ii)	350 mm dia	RMT	364	275		
iii)	400 mm dia	RMT	466	348		
iv)	450 mm dia	RMT	481	344		
V)	500 mm dia	RMT	572	400		

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs.) 2023-25
vi)	600 mm dia	RMT	783	559	
vii)	700 mm dia	RMT	1041	704	
viii)	750 mm dia	RMT	1176	809	
10	Providing, lowering, laying and placing in position, <u>shrouding material</u> for porous pipe gallery / slotted pipe gallery / trench gallery with all leads and lifts involved including transportation of materials to site of works, screening and washing of materials and placing in position with given section, etc. complete as directed by Engineer-in-charge.				
a)	40 mm gauge pebbles	Cum	1857	381	
b)	12 mm to 20 mm gauge pebbles	Cum	2187	448	
c)	6 to 12 mm gauge pebbles	Cum	2463	507	
d)	Coarse sand (from river sand at site)	Cum	1615	389	e
e)	Fine sand (from river sand at site)	Cum	1846	300	
11	Providing and fixing in position <u>CI dapuri steps</u> or 22 mm dia. M.S. bar step with proper anchorage, etc. and providing and applying 3 coats of anticorrosive paint, etc. complete as directed by Engineer-in-charge.	No	464	104	
12	Providing and fixing <u>M.S. sluice gates</u> in position as per detailed drawings and specification including cost of all materials, labour, operating pedestal, connecting rod, painting with three coats of anti-corrosive paint, etc. complete as directed by Engineer-in-charge.	Kg	137	45	
13	Providing and fixing in position <u>C.I. / M.S. rose</u> pieces in intake wells including cost of all materials and labour, painting with three coats of anticorrosive oil paint, etc. complete as directed by Engineer-in-charge.	Kg	120	22	
14	Providing and fixing in position 80 mm dia. x 1.5 M deep <u>G.I. pipe anchorage</u> below invert of pipeline for nalla or river crossings where soft materials or sand is anticipated for considerable depth including hammering the pipe upto 1.5 M depth below invert of pipe, removing sand/ loose materials in the pipe with small and long spoons, providing and fixing 16 mm dia x 1.75 M clear length M.S. hook for holding the pipeline in position, through G.I. pipe already hammered and cleared, pouring cement grout through this pipe upto top of pipe to form a cement bulb at bottom of pipe and to hold M.S. hook tight in the pipe including cost of all material and labour involved but excluding cost of excavation on pipeline for its exposure upto invert, as per type design.	Anch or Pipe			

Sr. No.	Description	Unit	Rate (Rs.)	2023-24	Rate (Rs) 2023-25
	Note : This type of pipe anchorage shall be provided at 30 M centre to centre on alternate side of pipeline for full width of nalla or river.					
15	Providing and spreading around the well 1 mm thick polyethylene sheet complete as directed by Engineer-in-charge.	Sqm	30	5		
16	Dewatering charges for estimation purpose for head works in river basin or dam :					
i)	Approach Channel	RMT	7152	1074	-D	K.
ii)	Intake Well of 3 M dia.	No	94068	15022	n r	7
iii)	Inspection Well of 2 M dia.	No	61167	10372	. 1	
iv)	Connecting Main	RMT	5750	967		
v)	Jack Well of 6 M dia.	No	287016	39804		
vi)	Approach Bridge	RMT	959	225		
	Notes					
	to start construction of masonry steining so as not to allow silting of well in oncoming monsoon and while paying masonry, 25% amount shall be withheld and released only when excavation to the full depth is completed.	l				
2)	Dewatering : Total dewatering charges are to be proposed in the tender as lumpsum amount and 75% is payable for excavation and 25% is payable for construction of well/ gallery. Out of 75% excavation, break-up shall be as under:					
	25% for last 1 M depth.					
	20% for 2 M depth which just above last 1 M depth.					
	15% for 2 M depth which just above last 3 M depth.					
1	15% for the rest of depth from water table level.					
3)	The provisions made for dewatering in the tender being on lumpsum basis, the same shall have to be reduced / increased proportionately as the length of approach channel, connecting main or approach bridge reduces / increases during actual execution.					
	Condition Nos. (1) & (2) shall appear in tender conditions.					

B

Sr.	Description	Unit	Rate (Rs.) 2023-24		Rate (Rs.) 2023-25	
No.					1440 (1401) 2020 20	
17	Carrying out recuperation/ yield test for asserting the discharge of constructed well/ excavated profile as directed by Engineer-in- charge. The test is carried out by drawing down water from the well/profile below normal/ subsoil water level upto full depth rise in water level is recorded. The normal water level/ subsoil water level in the well/ profile as well as stainer/ suction level at pump as per design of W.S. scheme shall be recorded prior to the test including cost of all materials, overhead, labourers, etc. completed as directed.					
	The test shall be carried out as per Tech. Circular No. 2597 & 2011 -97 and shall be carried out for 7 days.			(n'	
i)	Lps more than 25,000	Day	3462	2286	e V	
ii)	Lps less than 25,000	Day	2492	2087		

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SECTION - N TRIAL RUN

Sr. No.	Description	Unit	Rate (Rs.) 2023-24	Rate (Rs.) 2024-25	
			Complete	Labour	Complete	Labour
1	Commissioning, running and maintaining the scheme to quantities, rated capacity, including manning necessary personnel such as operator, valveman, etc. as per requirements of the scheme and who should also administer chemical dose for a period of <u>1 month</u> for individual scheme and for regional scheme, together with training of personnel spared by MJP / Local Body and handing over the scheme to Local Body after completion of the above period as directed by Engineer-in-charge.					
	Note : Required chemicals to be supplied by Department free of cost and electricity bill will also be paid by the Department.			(Ľ	÷
a)	For single village without WTP	Month	30181	19780		
b)	For single village with WTP	Month	35160	23077		
c)	For regional scheme upto 3 villages with raw water pumping, one treatment plant with pumps, raw water pumping main, leading main, ESR, BPT and distribution system, etc.	Month	62393	50890		
d)	For regional scheme upto 3 villages with raw water pumping with pumps, raw water pumping main, leading main, ESR, BPT and distribution system, etc. (For six months) without WTP	Month	40374	32915		
e)	For regional scheme upto 3 villages trial period shall be one year with raw water pumping, one treatment plant with pumps, raw water pumping main, leading main, ESR, BPT and distribution system, etc. (For one year)	Month	63289	51153		
f)	For regional scheme upto 3 villages trial period shall be one year with raw water pumping with pumps, raw water pumping main, leading main, ESR, BPT and distribution system, etc. (For one year) without WTP	Month	41035	33414		
g)	Add for every additional villages or part thereof	Month	11145	7941		
h)	Add for every additional pumping station	Month	18510	17182		

SAVE WATER SAVE LIFE SAVE THE PLANET