

Office of Chief Engineer (Technical) and TM, RWSSMB

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#### No. D&S/BSR/2022-23/ 1868-1978

Date: 02-08-2022

#### Amendment No.01/BSR-2022

Basic Schedule of Rates (BSR) for year 2022-23 was issued by this office vide office order No. D&S/BSR/2022-23/ 382-492 dated 05.05.2022 for water supply schemes/projects for PHED Rajasthan. On the recommendation of the Committee, constituted by this office order no. D&S/BSR/2022-23/195-210 dated 20.04.2022, in its meeting held on dated 28.04.2022 and Minutes of Meeting issued vide this office no. D&S/BSR/2022-23/1853-1857 dated 01.08.2022, amendment made in existing PHED BSR 2022 as follows:

S. No.	Chapter No.	Particulars	Details of Items amended	Remarks 4
1	All	All items of all Chapters.	Rates changed due to the effect of GST rate on govt. work contract.	Due to GST Notification 03/2022, Central tax dated 13.07.2022, GST rate of work contracts applicable in Department increased from 12 % to 18%
2	1.	DI Pipes, HDPE Pipes, MS pipes, BWSC pipes and MS specials.	[편성] 김 사람은 것이 같은 것이 있는 것이 같은 것이 없다.	Rates lowered due to the cool down of the prices of raw materials used.
3	2.	MS casing pipe, GI pipes, HDPE riser pipe.	물건이 많아졌다. 영화가 관장 성격에 가지 않았다.	Rates lowered due to the cool down of the prices of raw materials used.
4	<b>3</b> .	All RCC Reservoirs including DI and GI lowering pipes.	[[14] [[14] 20] 20] 20] 20] 20] 20] 20] 20] 20] 20	Rates lowered due to the cool down of the prices of steel bars for RCC reservoirs. GI and DI pipe due to change in rate of pipes.

02.08.2022

5	1.	FHTC with integrated PP saddle piece (item no 1.23)		
6	1.	Item of PTMT tap is added (item no 1.30)	New addition.	As per recommendation of meeting of TC 724 <sup>th</sup> dated 06.07.2022
7	6.	Nomenclature of Soft seated sluice valve corrected.	· 승규는 동안 등에서 이 것 같아요. 문 것, 것	

This order shall be effective with immediate effect.

**Enclosure: Amended BSR 2022** 

Chief Engineer (Technical) and TM, RWSSMB, PHED, Raj. Jaipur

Date: 02-08-2022

#### No. D&S/BSR/2022-23/ 1868-1978

#### **Copy to following:**

- 1. SA to Hon'ble Minister, PHED, Govt. of Rajasthan, Jaipur.
- 2. PS to Addl. Chief Secretary, PHED& GWD, Govt. of Rajasthan, Jaipur.
- 3. MD, JJM, Govt. of Rajasthan, Jaipur.
- 4. Chief Engineer (Rural)/(U&NRW)/(SP)/(Adm.)/JJM/QC, PHED, Jaipur.
- 5. Chief Engineer (P) Jodhpur/ (PMU), RRWS&FMP PHED Nagaur.
- 6. FA&CAO, RWSSMB, PHED, Jaipur.
- 7. Secretary, RWSSMB, PHED Jaipur.
- 8. Addl. Chief Engineer, PHED, ..... (All)
- 9. Superintending Engineer, PHED, .....(All)

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Superintending Engineer (D&S) O/O Chief Engineer (Technical) and TM, RWSSMB, PHED, Raj. Jaipur

# PUBLIC HEALTH ENGINEERING DEPARTMENT

### Government of Rajasthan

## **AMENDMENT 01 PHED BSR 2022**

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# Chapter 1

# Pipe line work

S. No.	Description	Unit	Amended Rate (Rs.)
	DI PIPES		(10.)
1.1	Providing, lowering, laying in trenches, aligning, fixing in position and	· .	
	jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per		
	IS:8329-2000 (amended up to date), with internal cement mortar	· · · · ·	
•	lining suitable for potable water with rubber ring (EPDM) joints as		
	per IS: 5382-1985 including all taxes (Central and local),	'	
	transportation and freight charges, inspection charges, loading/		
	unloading charges, including cost of labour and material, specials		in the second
	(Tee, bend etc.) satisfactory hydraulic testing, disinfection,		
	commissioning etc. complete as per technical specifications and		
	direction of Engineer-in-charge. (excluding earth work)	1999 - A.	موجها که مکانی و چرکی
N.	Note : Providing and fixing of all requisite specials as per drawing,		
14 <sup>1</sup>	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.		an anna an an
1. T			
· · · ·			
1.1.1	80 mm	RMT	1555.00
1.1.2	100 mm	RMT	1606.00
1.1.3	150 mm	RMT	2279.00
1.1.4	200 mm	RMT	2908.00
1.1.5	250 mm	RMT	3784.00
1.1.6	300 mm	RMT	4833.00
1.1.7	350 mm	RMT	5899.00
1.1.8	400 mm	RMT	7201.00
1.1.9	450 mm	RMT	8511.00
1.1.10	500 mm	RMT	10153.00
1.1.11	600 mm	RMT	13272.00
1.1.12	700 mm	RMT	17793.00
1.1.13	800 mm	RMT	22842.00
1.1.14	900 mm	RMT	28012.00
1.1.15	1000 mm	RMT	33614.00
1.2	Providing, lowering, laying in trenches, aligning, fixing in position and		
	jointing Ductile Iron (DI) ISI marked K-9 grade S&S pipes as per		tsiddela Santa Santa Santa Santa Santa Santa Santa
	IS:8329-2000 (amended up to date), with internal cement mortar		A State of the second sec
	lining suitable for potable water with rubber ring (EPDM) joints as		
	per IS: 5382-1985 including all taxes (Central and local),		in a gradient de la composition de la c la composition de la c la composition de la c
	transportation and freight charges, inspection charges, loading/		an an an an Arthread Arthread Arthread Arthread Arthr
•	unloading charges, including cost of labour and material, specials		an a
	(Tee, bend etc.) satisfactory hydraulic testing, disinfection,		1997 - 1995 1977 († 1975) 1979 - 1979 - 1979 († 1975)
1 - N	commissioning etc. complete as per technical specifications and		
, ·	direction of Engineer-in-charge. (excluding earth work)		5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	Note : Providing and fixing of all requisite specials as per drawing,	a series a	a da anti-anti-anti-anti-anti-anti-anti-anti-
	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.		
· · · ·			
		. '	
1.2.1	100 mm	RMT	1836.00
1.2.1		RMT	2612.00
	150 mm	RMT	3465.00
1.2.3	200 mm		

Amendment 01 PHED BSR 2022

Pipe line work

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5. No.	Description	Unit	Amended Rate (Rs.)
1.2.4	250 mm	RMT	4602.00
1.2.5	300 mm	RMT	5834.00
1.2.6	350 mm	RMT	7116.00
1.2.7	400 mm	RMT	8667.00
1.2.8	450 mm	RMT	10352.00
1.2.9	500 mm	RMT	12133.00
1.2.10	600 mm	RMT	15878.00
1.2.11	700 mm	RMT	20106.00
1.2.12	800 mm	RMT	24729.00
1.2.13	900 mm	RMT	30115.00
1.2.14	1000 mm	RMT	36359.00
1.2.15	1100 mm	RMT	43908.00
1.2.16	1200 mm	RMT	50912.00
1.3	Providing, lowering, laying, aligning, fixing in position and jointing at	te di ante a	
	all level/ depths DI standard specials with rubber ring		
	(EPDM)/ nut bolt and insertion sheet and jointing as per IS: 9523-		
	2000 or as amended up to date, such as tees, bends, tapers, caps		
	etc. within trenches in DI pipe line complete including all material,		
	labour, taxes, testing and commissioning along with pipe line as per		n an
	technical specifications and direction of Engineer-in-charge		
	(excluding earth work).		
1.3.1	All End Socketed		
1.3.1.1	Up to 300 mm Diameter	Kg	151.00
1.3.1.2	Above 300mm and up to 600 mm diameter	Kg	168.00
1.3.1.3	Above 600 mm diameter	Kg	216.00
1.3.2	All End Flanged	<u>v</u>	
1.3.2.1	Up to 300 mm Diameter	Kg	165.00
1.3.2.2	Above 300mm and up to 600 mm diameter	Kg	186.00
1.3.2.3	Above 600 mm diameter	Kg	245.00
1.3.3	Single Flange/ MJ Collar	<u> </u>	an a
1.3.3.1	Up to 300 mm Diameter	Kg	157.00
1.3.3.2	Above 300mm and up to 600 mm diameter	Kg	175.00
1.3.3.3	Above 600 mm diameter	Kg	228.00
1.3.4	Double Flange Pipe (up to 1 mtr. length)		
1.3.4.1	Up to 300 mm Diameter	Kg	174.00
1.3.4.2	Above 300mm and up to 600 mm diameter	Kg	203.00
1.3.4.3	Above 600 mm diameter	Kg	256.00
1.3.4.3		n.g.	200.00

Pipe line work

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S. No.	Description	Unit	Amended Rat (Rs.)
·. · ·	HDPE PIPES		
1.4	Providing, lowering, laying and jointing in trenches, standard		
	lengths HDPE ISI marked Pipes as per IS-4984: 1995 (amended up to		
	date) with necessary jointing material like mechanical connectors,		
	i.e. thread/ insert joint/ quick release coupler joint/ compression	· ·	
	fitting joint or flanged joint and specials jointing pipe by electro		
	fusion welding method, including all taxes, transportation and		
	freight charges, inspection charges, loading/ unloading charges,	1	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100
	stacking of pipes, including cost of labour and material, specials (Tee,		
1 A. 1	bend etc.), satisfactory hydraulic testing, disinfection, commissioning		
	etc. complete as per technical specifications and direction of Engineer		
			n an
	in-charge of following class and diameter. (excluding earth work).		
	Note : Providing and fixing of all requisite specials as per drawing,		
· · · ·	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.		
	Supply may be in coil or straight length in 6 M/12 M.		
		1.0	
1.4.1	HDPE PE-80 PN-6		
1.4.1.1	75 mm dia	RMT	264.00
1.4.1.2	90 mm dia	RMT	366.00
1.4.1.3	110 mm dia	RMT	550.00
1.4.2	HDPE PE-100 PN-6		
1.4.2.1	75 mm dia	RMT	224.00
1.4.2.2	90 mm dia	RMT	316.00
1.4.2.3	110 mm dia	RMT	472.00
1.4.3	HDPE PE-80 PN-10		
1.4.3.1	90 mm dia	RMT	507.00
1.4.3.2	110 mm dia	RMT	759.00
1.4.4	HDPE PE-100 PN-10		
1.4.4.1	90 mm dia	RMT	436.00
1.4.4.2	110 mm dia	RMT	646.00
1.5	Providing, lowering, laying and jointing in trenches, standard		
بالد	lengths HDPE ISI marked Pipes as per IS-4984; 1995 (amended up to	a terrar	
· · ·	(date) with necessary jointing material like mechanical connectors,	2 <sup>10</sup> - 1	a da angelaria. Angelaria
	i.e. thread/ insert joint/ quick release coupler joint/ compression		
	fitting joint or flanged joint and specials jointing pipe by <b>butt fusion/</b>		
	electro fusion welding method, including all taxes , transportation		
-			
	and freight charges, inspection charges, loading/ unloading charges,		
er to see	stacking of pipes, including cost of labour and material, specials (Tee,		
·	bend etc.), satisfactory hydraulic testing, disinfection, commissioning		
	etc. complete as per technical specifications and direction of Engineer		
	in-charge of following class and diameter. (excluding earth work).	1 - E - E	
	Note : Providing and fixing of all requisite specials as per drawing,	a de la cal	
	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.	· ·	
	Supply of pipe shall be in straight length in 6/12 M.		
		n La servis	
1.5.1	HDPE PE-80 PN-6		
1.5.1.1	125 mm dia	RMT	729.00

S. No.	Description	Unit	Amended Ra (Rs.)
1.5.1.2	140 mm dia	RMT	915.00
1.5.1.3	160 mm dia	RMT	1155.00
1.5.1.4	180 mm dia	RMT	1455.00
1.5.1.5	200 mm dia	RMT	1744.00
1.5.1.6	225 mm dia	RMT	2210.00
1.5.2	HDPE PE-100 PN-6		
1.5.2.1	125 mm dia	RMT	618.00
1.5.2.2	140 mm dia	RMT	779.00
1.5.2.3	160 mm dia	RMT	981.00
1.5.2.4	180 mm dia	RMT	1234.00
	200 mm dia	RMT	1481.00
	225 mm dia	RMT	1868.00
1.5.3	HDPE PE-80 PN-10		
1.5.3.1	125 mm dia	RMT	1042.00
1.5.3.2	140 mm dia	RMT	1304.00
1.5.3.3	140 mm dia	RMT	1687.00
1.5.3.4	180 mm dia	RMT	2104.00
1.5.3.4	200 mm dia	RMT	2104.00
1.5.3.5	225 mm dia	RMT	3222.00
1.5.3.6 1.5.4	HDPE PE-100 PN-10	INIVES .	5222.00
1.5.4.1	125 mm dia	RMT	873.00
1.5.4.2	140 mm dia	RMT	1094.00
1.5.4.3	140 mm dia	RMT	1423.00
1,5.4.4	180 mm dia	RMT	1789.00
1.5.4.5	200 mm dia	RMT	2170.00
1.5.4.6	225 mm dia	RMT	2718.00
1.5.4.0	MS PIPES AND SPECIALS		2710.00
		<u></u>	
1.6	Manufacturing, supplying ,lowering, laying and jointing in position to		
	correct line spirally welded SAW/Fabricated MS Pipe having bevelled	1	
	end plates / coils, confirming to IS 3589-2001 or its latest revision/		
	amendments, for following thickness and inside diameter, including		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges,		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge;		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating).		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing,		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing,		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and		
1.6.1	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.		
1.6.1	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.		
	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe		4064.00
1.6.1.1	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm	RMT	4064.00 4523.00
1.6.1.1 1.6.1.2	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm 6.0 mm	RMT RMT	4523.00
1.6.1.1 1.6.1.2 1.6.1.3	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm 6.0 mm 7.0 mm	RMT RMT RMT	4523.00 5445.00
1.6.1.1 1.6.1.2	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm 6.0 mm	RMT RMT	4523.00
1.6.1.1 1.6.1.2 1.6.1.3	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm 6.0 mm 7.0 mm	RMT RMT RMT	4523.00 5445.00
1.6.1.1 1.6.1.2 1.6.1.3 1.6.1.4	amendments, for following thickness and inside diameter, including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.), field joints, satisfactory hydraulic testing, disinfection, commissioning etc. complete as per technical specifications and direction of Engineer-in-charge; (excluding earthwork, internal lining and outer coating). Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately. Dia of Pipe: 300.00 mm (I.D) Thickness of Pipe 5.0 mm 6.0 mm 7.0 mm 8.0 mm	RMT RMT RMT	4523.00 5445.00

S. No.	Description	Unit	Amended Rate (Rs.)
1.6.2.2	6.0 mm	RMT	6334.00
1.6.2.3	7.0 mm	RMT	7411.00
1.6.2.4	8.0 mm	RMT	8493.00
1.6.3	Dia of Pipe: 400.00 mm (I.D)		
1.0.5	Thickness of Pipe		
1.6.3.1	5.0 mm	RMT	6005.00
1.6.3.2	6.0 mm	RMT	7224.00
1.6.3.3	7.0 mm	RMT	8449.00
1.6.3.4	8.0 mm	ŘMT	9680,00
1.6.4	Dia of Pipe: 450.00 mm (I.D)		
1.0.4	Thickness of Pipe	· · · · · · · · · · · · · · · · · · ·	·
1641	5.0 mm	RMT	6747.00
1.6.4.1	6.0 mm	RMT	8114.00
1.6.4.2		RMT	9487.00
1.6.4.3		RMT	10866.00
1.6.4.4	8.0 mm	RMT	12251.00
1.6.4.5	9.0 mm		
1.6.5	Dia of Pipe: 500.00 mm (I.D)		-
1051	Thickness of Pipe	RMT	7488.00
1.6.5.1		RMT	9004.00
1.6.5.2	6.0 mm	RMT	10525.00
1.6.5.3	7.0 mm	RMT	12052.00
1.6.5.4	8.0 mm	RMT	13585.00
1.6.5.5	9.0 mm Dia of Pipe: 550.00 mm (I.D)		
1.6.6	Thickness of Pipe		
1.6.6.1	5.0 mm	RMT	8229.00
1.6.6.2	6.0 mm	RMT	9893.00
1.6.6.3	7.0 mm	RMT	11563.00
1.6.6.4	8.0 mm	RMT	13238,00
1.6.6.5	9.0 mm	RMT	14920.00
1.6.7	Dia of Pipe: 600.00 mm (I.D)		
1.0.7	Thickness of Pipe		
1.6.7.1	5.0 mm	RMT	8971.00
1.6.7.2	6.0 mm	RMT	10783.00
1.6.7.3	7.0 mm	RMT	12601.00
1.6.7.4	8.0 mm	RMT	14425.00
1.6.7.5	9.0 mm	RMT	16254.00
1.6.7.6	10.0 mm	RMT	18090.00
1.6.7.7	12.0 mm	RMT	21779.00
1.6.8	Dia of Pipe: 650.00 mm (I.D)		
	Thickness of Pipe		
1.6.8.1	5.0 mm	RMT	9712.00
1.6.8.2	6.0 mm	RMT	11673.00
1.6.8.3	7.0 mm	RMT	13639.00
1.6.8.4	8.0 mm	RMT	15611.00
1.6.8.5	9.0 mm	RMT	17589.00
1.6.8.6	10.0 mm	RMT	19573.00
1.6.8.7	12.0 mm	RMT	23559.00
1.6.9	Dia of Pipe: 700.00 mm (I.D)		
	Thickness of Pipe		
1.6.9.1	5.0 mm	RMT	10454.00
1.6.9.2	6.0 mm	RMT	12562.00

Amendment 01 PHED BSR 2022

Pipe line work

S. No.	Description	Unit	Amended Rat (Rs.)
1.6.9.3	7.0 mm	RMT	14677.00
1.6.9.4	8.0 mm	RMT	16797.00
1.6.9.5	9.0 mm	RMT	18923.00
1.6.9.6	10.0 mm	RMT	21056.00
1.6.9.7	12.0 mm	RMT	25338.00
1.6.10	Dia of Pipe: 750.00 mm (I.D)		
1.0.10	Thickness of Pipe		
1.6.10.1	5.0 mm	RMT	11195.00
1.6.10.2	6.0 mm	RMT	13452.00
1.6.10.2	7.0 mm	RMT	15715.00
1.6.10.4	8.0 mm	RMT	17983.00
1.6.10.5	9.0 mm	RMT	20258.00
1.6.10.6	10.0 mm	RMT	22538.00
1.6.10.7	12.0 mm	RMT	27117.00
1.6.11	Dia of Pipe: 800.00 mm (I.D)		
±.0.11	Thickness of Pipe		and the second second
1.6.11.1	5.0 mm	RMT	11936.00
1.6.11.2	6.0 mm	RMT	14342.00
1.6.11.3	7.0 mm	RMT	16753.00
1.6.11.4	8.0 mm	RMT	19170.00
1.6.11.5	9.0 mm	RMT	21592.00
1.6.11.6	10.0 mm	RMT	24021.00
1.6.11.7	12.0 mm	RMT	28897.00
1.6.12	Dia of Pipe: 850.00 mm (I.D)		
	Thickness of Pipe		
1.6.12.1	5.0 mm	RMT	12678.00
1.6.12.2	6.0 mm	RMT	15231.00
1.6.12.3	7.0 mm	RMT	17791.00
1.6.12.4	8.0 mm	RMT	20356.00
1.6.12.5	9.0 mm	RMT	
1.6.12.6	10.0 mm	RMT	25504.00
1.6.12.7	12.0 mm	RMT	30676.00
1.6.13	Dia of Pipe: 900.00 mm (I.D)		
-	Thickness of Pipe		
1.6.13.1	5.0 mm	RMT	13419.00
1.6.13.2	6.0 mm	RMT	16121.00
1.6.13.3	7.0 mm	RMT	18828.00
1.6.13.4	8.0 mm	RMT	21542.00
1.6.13.5	9.0 mm	RMT	24261.00
1.6.13.6	10.0 mm	RMT	26987.00
1.6.13.7	12.0 mm	RMT	32455.00
1.6.14	Dia of Pipe: 950.00 mm (I.D)		
	Thickness of Pipe		
1.6.14.1	5.0 mm	RMT	14161.00
1.6.14.2	6.0 mm	RMT	17011.00 19866.00
1.6.14.3	7.0 mm	RMT	22728.00
1.6.14.4	8.0 mm	RMT	25596.00
1.6.14.5	9.0 mm	RMT	25596.00
1.6.14.6	10.0 mm	RMT_	34235.00
1.6.14.7	12.0 mm	RMT	54235.00
1.6.15	Dia of Pipe: 1000.00 mm (I.D)		
	Thickness of Pipe		14902.00
1.6.15.1	5.0 mm	RMT	14302.00

5. No.	Description	Unit	Amended Rat (Rs.)
1.6.15.2	6.0 mm	RMT	17900.00
1.6.15.3	7.0 mm	RMT	20904.00
1.6.15.4	8.0 mm	RMT	23914.00
1.6.15.5	9.0 mm	RMT	26930.00
1.6.15.6	10.0 mm	RMT	29952.00
1.6.15.7	12.0 mm	RMT	36014.00
1.6.16	Dia of Pipe: 1050.00 mm (I.D)		00021.00
· .	Thickness of Pipe	· · · · · · · · · · · · · · · · · · ·	
1.6.16.1	5.0 mm	RMT	15643.00
1.6.16.2	6.0 mm	RMT	18790.00
1.6.16.3	7.0 mm	RMT	21942.00
1.6.16.4	8.0 mm	RMT	25101.00
1.6.16.5	9.0 mm		
1.6.16.6	10.0 mm	RMT	28265.00
1.6.16.7	12.0 mm	RMT	31435.00
		RMT	37793.00
1.6.17	Dia of Pipe: 1100.00 mm (I.D)		
1 6 4 7 4	Thickness of Pipe		
1.6.17.1	5.0 mm	RMT	16385.00
1.6.17.2	6.0 mm	RMT	19680.00
1.6.17.3	7.0 mm	RMT	22980.00
1.6.17.4	8.0 mm	RMT	26287.00
1.6.17.5	9.0 mm	RMT	29600.00
1.6.17.6	10.0 mm	RMT	32918.00
1.6.17.7	12.0 mm	RMT	39573.00
1.6.18	Dia of Pipe: 1150.00 mm (I.D)		
	Thickness of Pipe	1. j.	
1.6.18.1	5.0 mm	RMT	17126.00
1.6.18.2	6.0 mm	RMT	20569.00
1.6.18.3	7.0 mm	RMT	24018.00
1.6.18.4	8.0 mm	RMT	27473.00
1.6.18.5	9.0 mm	RMT	30934.00
1.6.18.6	10.0 mm	RMT	34401.00
1.6.18.7	12.0 mm	RMT	41352.00
1.6.19	Dia of Pipe: 1200.00 mm (I.D)		
	Thickness of Pipe		stand for a second s
1.6.19.1	5.0 mm	RMT	17868.00
1.6.19.2	6.0 mm	RMT	21459.00
1.6.19.3	7.0 mm	RMT	25056.00
1.6.19.4	8.0 mm	RMT	28659.00
1.6.19.5	9.0 mm	RMT	32269.00
1.6.19.6	10.0 mm	RMT	35884.00
1.6.19.7	12.0 mm	RMT	43131.00
1.6.20	Dia of Pipe: 1250.00 mm (I.D)	1	
	Thickness of Pipe		
1.6.20.1	6.0 mm	RMT	22349.00
1.6.20.2	7.0 mm	RMT	26094.00
1.6.20.3	8.0 mm	RMT	29846.00
1.6.20.4	9.0 mm	RMT	33603.00
1.6.20.5	10.0 mm	RMT	37366.00
1.6.20.5	12.0 mm	RMT	44911.00
	Dia of Pipe: 1300.00 mm (I.D)		
1.6.21			
1 6 7 1 7	Thickness of Pipe	RMT	23238.00
1.6.21.1	6.0 mm		23230.00

S. No.	Description	Unit	Amended Rat (Rs.)
1.6.21.2	7.0 mm	RMT	27132.00
1.6.21.3	8.0 mm	RMT	31032.00
1.6.21.4	9.0 mm	RMT	34938.00
1.6.21.5	10.0 mm	RMT	38849.00
1.6.21.6	12.0 mm	RMT	46690.00
1.6.22	Dia of Pipe: 1350.00 mm (I.D)		
	Thickness of Pipe		
1.6.22.1	7.0 mm	RMT	28170.00
1.6.22.2	8.0 mm	RMT	32218.00
1.6.22.3	9.0 mm	RMT	36272.00
1.6.22.4	10.0 mm	RMT	40332.00
1.6.22.5	12.0 mm	RMT	48470.00
1.6.23	Dia of Pipe: 1400.00 mm (I.D)		
	Thickness of Pipe	1	
1.6.23.1	7.0 mm	RMT	29208.00
1.6.23.2	8.0 mm	RMT	33404.00
1.6.23.3	9.0 mm	RMT	37607.00
1.6.23.4	10.0 mm	RMT	41815.00
1.6.23.5	12.0 mm	RMT	50249.00
1.6.24	Dia of Pipe: 1450.00 mm (I.D)		
	Thickness of Pipe		
1.6.24.1	7.0 mm	RMT	30246.00
1.6.24.2	8.0 mm	RMT	34591.00
1.6.24.3	9.0 mm	RMT	38941.00
1.6.24.4	10.0 mm	RMT	43298.00
1.6.24.5	12.0 mm	RMT	52028.00
1.6.25	Dia of Pipe: 1500.00 mm (I.D)		
	Thickness of Pipe		
1.6.25.1	7.0 mm	RMT	31284.00
1.6.25.2	8.0 mm	RMT	35777.00
1.6.25.3	9.0 mm	RMT	40276.00
1.6.25.4	10.0 mm	RMT	44780.00
1.6.25.5	12.0 mm	RMT	53808.00
1.6.26	Dia of Pipe: 1550.00 mm (I.D)		
	Thickness of Pipe		
1.6.26.1	7.0 mm	RMT	32322.00
1.6.26.2	8.0 mm	RMT	36963.00
1.6.26.3	9.0 mm	RMT	41610.00
1.6.26.4	10.0 mm	RMT	46263.00
1.6.26.5	12.0 mm	RMT	55587.00
1.6.27	Dia of Pipe: 1600.00 mm (I.D)		
	Thickness of Pipe		
1.6.27.1	7.0 mm	RMT	33360.00
1.6.27.2	8.0 mm	RMT	38149.00
1.6.27.3	9.0 mm	RMT	42945.00
1.6.27.4	10.0 mm	RMT	47746.00
1.6.27.5	12.0 mm	RMT	57366.00
1.6.28	Dia of Pipe: 1650.00 mm (I.D)		
· · ·	Thickness of Pipe		
1.6.28.1	8.0 mm	RMT	39336.00
1.6.28.2	9.0 mm	RMT	44279.00
1.6.28.3	10.0 mm	RMT	49229.00
1.6.28.4	12.0 mm	RMT	59146.00

Pipe line work

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S. No.	Description	Unit	Amended Rate (Rs.)
1.6.29	Dia of Pipe: 1700.00 mm (I.D)		
	Thickness of Pipe		
1.6.29.1	8.0 mm	RMT	40522.00
1.6.29.2	9.0 mm	RMT	45614.00
1.6.29.3	10.0 mm	RMT	50711.00
1.6.29.4	12.0 mm	RMT	60925.00
1.6.30	Dia of Pipe: 1750.00 mm (I.D)	A REAL AND A	
1.0.00	Thickness of Pipe		
1.6.30.1	8.0 mm	RMT	41708.00
1.6.30.2	9.0 mm	RMT	46948.00
1.6.30.3	10.0 mm	RMT	52194.00
1.6.30.4	12.0 mm	RMT	62704.00
1.6.31	Dia of Pipe: 1800.00 mm (I.D)		
1.0.31	Thickness of Pipe		
1.6.31.1	8.0 mm	RMT	42894.00
1.6.31.2	9.0 mm	RMT	48283.00
	10.0 mm	RMT	53677.00
1.6.31.3		RMT	64484.00
1.6.31.4	12.0 mm	RMT	86168.00
1.6.31.5	16.0 mm Dia of Pipe: 1850.00 mm (I.D)		
1.6.32	Thickness of Pipe		
4.6.22.4	8.0 mm	RMT	44080.00
1.6.32.1		RMT	49617.00
1.6.32.2	9.0 mm	RMT	55160.00
1.6.32.3	10.0 mm	RMT	66263.00
1.6.32.4	12.0 mm	RMT	88540.00
1.6.32.5	16.0 mm Dia of Pipe: 1900.00 mm (I.D)		
1.6.33			
	Thickness of Pipe	RMT	45267.00
1.6.33.1	8.0 mm	RMT	50952.00
1.6.33.2	5.0 (111)	RMT	56643.00
1.6.33.3	10.0 mm	RMT	68042.00
1.6.33.4	12.0 mm	RMT	90913.00
1.6.33.5	16.0 mm		e en en en en en
1.6.34	Dia of Pipe: 1950.00 mm (I.D)		
	Thickness of Pipe	RMT	46453.00
1.6.34.1	8.0 mm	RMT	52286.00
1.6.34.2	9.0 mm	RMT	58125.00
1.6.34.3	10.0 mm	RMT	69822.00
1.6.34.4		RMT	93285.00
1.6.34.5	16.0 mm		
1.6.35	Dia of Pipe: 2000.00 mm (I.D)		
<u> </u>	Thickness of Pipe	RMT	47639.00
1.6.35.1	8.0 mm	RMT	53621.00
1.6.35.2	9.0 mm	RIVIT	59608.00
1.6.35.3	10.0 mm		71601.00
1.6.35.4	12.0 mm	RMT	95658.0
1.6.35.5	16.0 mm	RMT	

2

S. No.	Description	Unit	Amended Rat (Rs.)
	Lining and coating on MS pipe		
	Providing and applying following Coating to the External surface of		1.
	MS pipes, including preparation of surface by cleaning as per ISO		
	8502-3/ SSPC-SP10/ NACE No.2 near white blast cleaning and		
	abrasive blasting to a finish to SA 2.5 as per ISO: 8501-1 and surface		
a di se			
	profile / anchor profile of 50-75 / 75-100 microns as per ISO: 8503-2,		
1.7	including field joint coating at site complete as per Technical	SQM	1205.00
•	specifications and direction of Engineerin-charge:		•
	3 LPE (3 Layer Polyethylene) / DFBE (Dual Layer Fusion Bonded		· · · ·
	Epoxy)/ PU (Polyurethane)/ Polyolefin Tape coating .		
			1. j. j.
	Description and explained Column from two pack liquid oner lining to		
1.8	Providing and applying Solvent free, two pack liquid epoxy lining to		
	internal surface of M.S. Pipe as per BS 6920:2000 and AWWA C210		
	standard including preparation of internal surface of pipe by cleaning		
	and abrasive blasting including field joints coating at site complete as	SQM	435.00
1.	per technical specification and direction of Engineer in In charge.	· .	
	Liquid Epoxy shall be NSF/WARS approved for drinking water		-
		÷ .	an an Araba an Araba. An Araba an Araba an Araba
1.9	Providing and applying 100% Solids, Rigid, DTM Polyurethane Coating		
	to internal surface of M.S. Pipe as per AWWA C222 standard		
	including preparation of internal surface of pipe by cleaning and		
	abrasive blasting including field joints coating at site complete as per	SQM	642.00
	technical specification and direction of Engineer in In charge.		
	Polyurethane Coating shall be NSF/WARS/SS-375 approved for		
	drinking water.		1.0.11
1.10	Providing and making inner cement mortar lining to M.S. Pipes with		
1.10	mechanical devices in cement mortar 1:1 proportion , including cost		
1 A.	of all materials, labour, special sand required, machinery, power	•	1.0
	or an materials, labour, special sand required, materials, power		
	generation, all equipments, including carrying out "C" value		
	performance test of pipeline, including field joints at site complete as		
e de la composition de	per technical specification and direction of Engineer in In charge.		
1. <b>10.1</b>	9 mm thick for pipes up to 700 mm dia	SQM	335.00
1.10.2	12 mm thick for pipes above 700 mm dia	SQM	369.00
1.11	Providing and fixing of flanged/ plain ended MS Specials made from		
-	MS sheet strips of relevant IS specification of approved thickness by		
	welding, lowering, laying, aligning, fixing in position at all level/		
	depths in trenches complete including all taxes, material, labour,		
	inside lining, outside coating, testing and commissioning along with	· · .	1
÷	pipe line as per technical specifications and direction of Engineer		
÷	in-charge.	1.	
	1, euro.0~,		
1.11.1	MS pipe specials up to 600mm dia (with minimum 5mm thickness	Kg	129.00
1. A.	sheet)		
1.11.2	MS pipe specials above 600mm dia(with minimum 6.3mm thickness	Kg	137.00
	sheet)	"" "	

S. No.	Description	Unit	Amended Rate (Rs.)
	BWSC PIPES		
1.12	Providing, lowering, laying and jointing of Bar Wrapped Steel		
	Cylinder Pipes (BWSC) for overlapping steel welded joint as per		
1.11	IS:15155-2001(amended up to date) of following class and diameter		
	including all taxes (Central and local), transportation and freight		
	charges, inspection charges, loading/ unloading charges, including		•
	cost of labour and material, specials (Tee, bend etc.), field joints,		
	satisfactory hydraulic testing, disinfection, commissioning etc.		
	complete as per technical specifications & direction of Engineer-in-		
	charge (excluding earth work).		•
-	Note : Providing and fixing of all requisite specials as per drawing,		
	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.		
		1	
	Notes		
1)	Class mentioned below represents the Factory Test pressure of pipe.		
2)	For external coating at site to the joints, necessary polythene		
	wrapping for pouring cement slurry shall also be provided with each	· · · ·	
	pipe.		
1.12.1	Factory Test Pressure 12 Kg/ Cm2		
1.12.1.1	250mm	RMT	3702.00
1.12.1.1	300 mm	RMT	4215.00
1.12.1.3	350 mm	RMT	4723.00
1.12.1.4	400 mm	RMT	5408.00
1.12.1.5	450 mm	RMT	6241.00
1.12.1.6	500 mm	RMT	6754.00
1.12.1.7	600 mm	RMT	8674.00
1.12.1.8	700 mm	RMT	11155.00
1.12.1.9	800 mm	RMT	13679.00
1.12.1.10	900 mm	RMT	16538.00
1.12.1.11	1000 mm	RMT	19899.00
1.12.1.12	1100 mm	RMT	27390.00
1.12.1.13	1200 mm	RMT	30384.00
1.12.1.14	1300 mm	RMT	33213.00
1.12.1.15	1400 mm	RMT_	37033.00
1.12.1.16	1500 mm	RMT	43985.00
1.12.1.17	1600 mm	RMT	46833.00
1.12.2	Factory Test Pressure 14 Kg/ Cm2	DAAT	3705.00
1.12.2.1	250mm	RMT	4223.00
1.12.2.2	300 mm	RMT	4726.00
1.12.2.3	350 mm	RMT	5422.00
1.12.2.4	400 mm		6254.00
1.12.2.5	450 mm	RMT PMT	6935.00
1.12.2.6	500 mm	RMT	9048.00
1.12.2.7	600 mm	RMT	12424.00
1.12.2.8	700 mm	RMT_	15209.00
1.12.2.9	800 mm	RMT	18440.00
1.12.2.10		RMT RMT	23391.00
1.12.2.11		RMT	27461.00
1.12.2.12	1100 mm		2,401.00

S. No.	Description	Unit	Amended Rat (Rs.)
	4000	RMT	31479.00
1.12.2.13	1200 mm	RMT	35886.00
1,12.2.14	1300 mm	RMT	41426.00
1.12.2.15	1400 mm	RMT	51972.00
1.12.2.16	1500 mm	RMT	54557.00
1.12.2.17	1600 mm	- NIVL1	34337.00
1.12.3	Factory Test Pressure 16 Kg/Cm2	DNAT	3711.00
1.12.3.1	250mm	RMT	4234.00
1.12.3.2	300 mm	RMT	
1.12.3.3	350 mm	RMT	4732.00
1.12.3.4	400 mm	RMT	5439.00
1.12.3.5	450 mm	RMT	6339.00
1.12.3.6	500 mm	RMT	7379.00
1.12.3.7	600 mm	RMT	9645.00
1,12.3.8	700 mm	RMT	13320.00
1.12.3.9	800 mm	RMT	15349.00
1.12.3.10	900 mm	RMT	19885.00
1.12.3.11	1000 mm	RMT	24039.00
	1100 mm	RMT	29218.00
1.12.3.12	1200 mm	RMT	33960.00
1.12.3.13		RMT	39093.00
1.12.3.14	1300 mm	RMT	45058.00
1.12.3.15	1400 mm	RMT	53485.00
1.12.3.16	1500 mm	RMT	58901.00
1.12.3.17	1600 mm		
1.12.4	Factory Test Pressure 18 Kg/Cm2	BMT	3717.00
1.12.4.1		RMT	4246.00
1.12.4.2	300 mm	RMT	4737.00
1.12.4.3	350 mm	RMT	5505.00
1.12.4.4	400 mm	RMT	6700.00
1.12.4.5	450 mm	RMT	7806.00
1.12.4.6	500 mm	RMT	10281.00
1.12.4.7	600 mm	RMT	14224.00
1.12.4.8	700 mm	RMT	16525.00
1.12.4.9	800 mm	RMT	21324.00
1.12.4.10	900 mm		26027.00
1.12.4.11	1000 mm		31342.00
1.12.4.12	1100 mm	RMT	36541.00
1.12.4.13	1200 mm	RMT	41985.00
1.12.4.14	1300 mm	RMT	41983.00
1.12.4.15	1400 mm	RMT	57298.00
1.12.4.16	1500 mm	RMT	
1.12.4.17		RMT	63847.00
1.12.5	Factory Test Pressure 20 Kg/Cm2		
1.12.5.1	250mm	RMT	3722.00
1.12.5.2	300 mm	RMT	4259.00
1.12.5.3	350 mm	RMT	4802.00
1,12.5.4	400 mm	RMT	5881.00
1.12.5.5	450 mm	RMT	7157.00
1.12.5.6	500 mm	RMT	8411.00
		RMT	11075.0
1.12.5.7		RMT	15427.0
1.12.5.8		RMT	19298.0
1.12.5.9		RMT	23391.0
1.12.5.10	) 900 mm L 1000 mm	RMT	28767.0

S. No.	Description	Unit	Amended Rate (Rs.)
1.12.5.12	1100 mm	RMT	34384.00
1.12.5.13	1200 mm	RMT	40102.00
1.12.5.14	1300 mm	RMT	46210.00
1.12.5.15	1400 mm	RMT	54122.00
1.12.5.16	1500 mm	RMT	64091.00
1.12.5.17	1600 mm	RMT	70407.00
1.12.3.1/	Laying Jointing and Removing of pipe line		· · · ·
1.13	De-jointing and removing of already laid CI/DI pipes of following		
1.13	diameters in excavated trenches with care, without damaging pipes,		
- · ·	CID joints, valves, specials etc. and other materials and then refilling		. * .
	of soil after de-laying and de-jointing of pipelines with proper		
· · · ·	compaction and disposing of all surplus soil as directed with in a lead	• •	
· · · ·	compaction and disposing of all surplus soll as directed with in a lead		
1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	of 30 mtr. This also include stacking the pipes with care and		
	transporting the same to div./sub div. store or as directed by EIC with		
	in the division. (Rates are Exclusive of Earth Work)	•	
far a tori			
1.13.1	80 mm	RMT	45.00
		RMT	50.00
1.13.2	100 mm	RMT	50.00
1.13.3	125 mm	RMT	59.00
1.13.4	150 mm	RMT	79.00
1.13.5	200 mm	RMT	98.00
1.13.6	230 Alla	RMT	119.00
1.13.7	300 mm	RMT	134.00
1.13.8	350 mm	RMT	164.00
1.13.9	400 mm	RMT	200.00
1.13.10	450 mm	RMT	257.00
1.13.11	500 mm	RMT	309.00
1.13.12	600 mm		
1.14	De-jointing and removing of already laid MS pipes of following	· · · ·	
	diameters in excavated trenches with care, without damaging pipes,	· · · ·	
	CID joints, valves, specials etc. and other materials and then refilling	en de la composition Notae de la composition	يراقع المحمد الم
	of soil after de-laying and de-jointing of pipelines with proper		
	compaction and disposing of all surplus soil as directed with in a lead	1. <sup>1</sup> .	. A. <sup>1</sup>
	of 30 mtr. This also include stacking the pipes with care and		
	transporting the same to div./sub div. store or as directed by EIC with		
	in the division. (Rates are Exclusive of Earth Work)	5	
		RMT	36.00
1.14.1	100 mm		36.00
1.14.2	125 mm	RMT	42.00
1.14.3	150 mm	RMT	80.00
1.14.4	200 mm	RMT	99.00
1.14.5	250 mm	RMT	120.00
1.14.6	300 mm	RMT	
1.14.7	350 mm	RMT	141.00
1.14.8	400 mm	RMT	162.00
1.14.9	450 mm	RMT	208.00
1.14.10	500 mm	RMT	251.00
1.14.11	600 mm	RMT	303.00

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S. No.	Description	Unit	Amended Rat (Rs.)
1.15	Laying, Jointing, Testing and Commissioning of uPVC/ PVC Pipes		
	(Class- 3/ 4) in assorted length with specials, valves etc. including		
·	local handling and transportation from PHED store and then refilling		
 	of soil with proper compaction and disposing of all surplus soil as		
	directed with in a lead of 30 mtr as per satisfaction of EIC. (Rates are		
	Exclusive of Earth Work and jointing materials)	1.1	
1.15.1	90 mm	RMT	18.00
1.15.2	110 mm	RMT	19.00
1.15.3	125 mm	RMT	23.00
1.15.4	140 mm	RMT	25.00
1.15.5	160 mm	RMT	27.00
1.15.6	180 mm	RMT	30.00
1.15.7	200 mm	RMT	31.00
	225 mm	RMT	34.00
1.15.8	250 mm	RMT	36.00
1.15.9		RMT	39.00
1.15.10	280mm	RMT	41.00
1.15.11	315 mm	NIVIT	
1.16	Laying, Jointing, Testing and Commissioning of Ductile Iron (DI) Pipes		a de la seconda
	of any class in assorted length with specials, valves etc. including local		and the second sec
	handling and transportation from PHED store and then refilling of soil		
	with proper compaction and disposing of all surplus soil as directed		
	with in a lead of 30 mtr as per satisfaction of EIC. (Rates are Exclusive		
	of Earth Work and jointing materials)		
1.16.1	80 mm	RMT	50.00
1.16.2	100 mm	RMT	52.00
1.16.3	125 mm	RMT	53.00
1.16.4	150 mm	RMT	65.00
1.16.5	200 mm	RMT	83.00
1.16.6	250 mm	RMT	102.00
1.16.7	300 mm	RMT	122.00
1.16.7	350 mm	RMT	141.00
1.16.9	400 mm	RMT	173.00
1.16.10	450 mm	RMT	215.00
	500 mm	RMT	278.00
1.16.11	600 mm	RMT	327.00
1.16.12	Laying, Jointing, Testing and Commissioning of AC Pressure Pipes		
1.17	(Class- 10/15/20) of any class in assorted length with specials, valves		
	etc. including local handling and transportation from PHED store and		
	then refilling of soil with proper compaction and disposing of all	1 - N	
	surplus soil as directed with in a lead of 30 mtr as per satisfaction of		
n i gili	surplus soil as directed with in a lead of 50 mill as per satisfaction of		
1999 - 1999 - 1999 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	EIC. (Rates are Exclusive of Earth Work and jointing materials)		
		· · · ·	
1.17.1	80 mm	RMT	32.00
1.17.2	100 mm	RMT	34.00
	125 mm	RMT	37.00
1.17.3	123 mm	RMT	40.00
1.17.4	200 mm	RMT	47.00
1 1 7 1			52.00
1.17.5	250 mm	KIVI I	32.00
1.17.5 1.17.6 1.17.7	250 mm 300 mm	RMT RMT	98.00

Pipe line work

S. No.	Description	Unit	Amended Rat (Rs.)
1.17.8	350 mm	RMT	106.00
1.17.9	400 mm	RMT	121.00
1.17.10	400 mm	RMT	139.00
1.17.11	500 mm	RMT	158.00
	600 mm	RMT	162.00
1.17.12	Laying, Jointing, Testing and Commissioning of HDPE pipes of any		
1.18	grade in assorted length with specials, valves etc. with jointing material/ fixing of necessary jointing material like mechanical connector i.e. thread/ insert joint/quick release coupler joint compression fitting joint or flanged joint and jointing pipe in proper		
	position and jointing of all specials by butt fusion / electro fusion welding method, including local handling and transportation from PHED store and then refilling of soil with proper compaction and disposing of all surplus soil as directed with in a lead of 30 mtr as per	-	
	satisfaction of EIC. (Rates are Exclusive of Earth Work and jointing materials)		· · · · · · · · · · · · · · · · · · ·
1.18.1	90 mm	RMT	14.00
1.18.2	110 mm	RMT	16.00
1.18.3	125 mm	RMT	72.00
1.18.4	140 mm	RMT	78.00
1.18.5	160 mm	RMT	90.00
1.18.6	180 mm	RMT	98.00
1.18.7	200 mm	RMT	109.00
1.18.8	225 mm	RMT	120.00
	AC pipes		
1.19	Providing, lowering, laying and jointing in trenches, standard lengths ISI marked AC pressure pipe class 15 manufactured by MAZZA process as per IS-1592-2003 or amended up to date with AC coupling and EPDM Rubber sealing rings of Type -3 as per IS:		
	5382/1985 (Reaffirmed 1998) or amended up to date, including all taxes , transportation and freight charges, inspection charges, loading/ unloading charges, stacking of pipes, labour and material, satisfactory hydraulic testing etc. complete as per technical		
	specifications and direction of Engineer-in-charge. (excluding earth work and specials) Note: These pipes shall only be used for raw water conveyance main from Canal outlet to raw water reservoirs and interconnection works.		
1.19.1	150 mm dia Cl-15	RM	709.00
1.19.2	200 mm dia Cl-15	RM	1155.00
1.19.3	250 mm dia Cl-15	RM	1505.00
1.19.4	300 mm dia Cl-15	RM	2178.00
1.19.5	350 mm dia Cl-15	RM	2758.00
1.19.5	400 mm dia Cl-15	RM	3651.00
1.19.7	450 mm dia Cl-15	RM	4288.00
1.19.8	500 mm dia Cl-15	RM	5428.00
1.19.9	600 mm dia Cl-15	RM	7736.00

S. No.	Description	Unit	Amended Rat (Rs.)
5			(RS.)
	CI Specials		
1.20	Providing, lowering, laying, aligning, fixing in position at all level/		
	depths Cl Class - B specials as per IS : 1538, amended up to date in		
1	trenches complete including all material, labour, testing and		
	commissioning along with pipe line/ appurtenance as per Technical	· ·	
	Specifications and as per direction of Engineer.		
	Note : E/w to be measured and paid separately.		
		· .	
1.20.1	Plain ended CI specials including tail piece, spigot end and socket end.		
	Up to 300 mm dia	Kg	111.00
	Above 300 mm and up to 600 mm dia	Kg	129.00
1.20.2	Double flanged Cl pipe fittings.	Kg	129.00
1.20.2.1	Up to 300 mm dia		
1.20.2.2	Above 300 mm and up to 600 mm dia	Kg	146.00
	House hold tap connections	· · ·	· · · · · · · · · · · · · · · · · · ·
1.21	Providing Household Tap Connection as per technical specification and		
	approved drawing as per relevant IS code (amended up to date) from		
	uPVC/DI/AC/MS/GI pipe line up to consumer meter/premises by using		
	PVC/MS saddle piece (Complete job). This job includes digging out	•	
	suitable size of pits and trench for laying service line in all kinds of soil	1	
	(excluding road); depositing and refilling of pit & jhiri with watering &	the second	
1. State 1.	ramming /compacting in layers and disposal of surplus excavated soil as		
• • •	directed with in a lead of 100 meter ; providing & fixing of all fitting duly		
	approved in accordance with specification for potable water including		
. •	MS/PVC saddle piece, gunmetal ferrule 4.0 mm , GM Full-way Valve		
•	(IS:778 Mark) or wheel valve and specials, below ground level 20 mm	1	
	nominal dia MDPE pipe PE 80 PN 16 as per ISO 4427 / 20 mm nominal		
	dia PPR-C (Three layered) pipe PN16 SDR 7.4 (IS:15801:2008) (ISI mark)		1
	and above ground level using 20 mm dia PPR-C pipe with standard PPR		
	fittings/ 15 mm dia GI pipe with fittings in the premises for fixing a tap /		
	meter box (excluding) ,including accessories with flushing, cleaning	1	
	disinfecting and testing of pipe line complete required for making of		
	service connection complete in all respect including labour charges . The	2	
	service line should be laid at least 45 cm below ground level.		
	Note: Road cut and restoration is not part of this item and paid	1	
	separately.		
1977) 1977) 1977)			
1.21.1	For connection with 20 mm dia MDPE/PPR-C pipe length up to 0.	5 Each	1667.00
	mtr.		
			- <b>L</b>

S. No.	Description	Unit	(Rs.)
1.22	Providing Household Tap Connection as per technical specification		
1.24	and approved drawing and as per relevant IS code (amended up to		
	date) from HDPE pipe line up to consumer meter/premises by using		
	electro fusion saddle piece (Complete job). This job includes digging		
	out suitable size of pits and trench for laying service line in all kinds of		
	soil; depositing and refilling of pit & jhiri with watering & ramming		
	soil; depositing and reming of pit & jim with watering & formalis	• •	
	/compacting in layers and disposal of surplus excavated soil as		
	directed with in a lead of 100 meter ; providing & fixing of all fitting		
	duly approved in accordance with specification for potable water		
	including electrofusion saddle piece, gunmetal ferrule 4.0 mm , GM		
a statistica a	Full-way Valve (IS:778 Mark) or wheel valve and specials, below		
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	ground level 20 mm nominal dia MDPE pipe PE 80 PN 16 as per ISO		
:	4427 / 20 mm nominal dia PPR-C (Three layered) pipe PN16 SDR 7.4	· · ·	
and the second	(IS:15801:2008) (ISI mark) for and above ground level using 20 mm	:	
	dia PPR-C pipe with standard PPR fittings/ 15 mm dia GI pipes with	. · ·	
	fittings in the premises for fixing a tap / meter box (excluding)		
н. Н	including accessories with flushing, cleaning, disinfecting and testing	· . · ·	
	of pipe line complete required for making of service connection		
	complete in all respect including labour charges . The service line		1.
	should be laid at least 45 cm below ground level.		
	<b>Note:</b> Road cut and restoration is not part of this item and paid		a su de la se
	separately.		
	For connection with 20 mm dia MDPE/PPR-C pipe length up to 05	Each	1986.00
1.22.1			
	mtr.		<u> </u>
1.23	Providing Household Tap Connection as per technical specification and	· · · ·	
	approved drawing as per relevant IS code (amended up to date) from	1 . <sup>1</sup> 2	1. 1. 1. E.
	HDPE/uPVC/DI/AC/MS/GI pipe line up to consumer meter/premises by		
1	using PP mechanical Integrated saddle with inbuilt flow control valve		
	made out of SS316 designed for 5 LPM discharge at 0.5 bar pressure	/	
	not exceeding the flow of 7 LPM at 2 bar and a compression elbow,		
and the second	moulded in single piece (Complete job) including digging out suitable	2	
	size of pits and trench for laying service line in all kinds of soil; depositing	5	
1997 - 1997 WA	and refilling of pit & ihiri with watering & ramming /compacting in layer	5	
1	and disposal of surplus excavated soil as directed with in a lead of 100	ין	
· .	meter : providing & fixing of all fitting duly approved in accordance with	וי	
	specification for potable water including GM Full-way Valve (IS:77)	5	
1.1	Mark) or wheel valve and specials with 20 mm nominal dia MDPE pipe	е	
- 1:	PE 80 PN 16 as per ISO 4427 / 20 mm nominal dia PPR-C (Three	e	
a di ta	layered) pipe PN16 SDR 7.4 (IS:15801:2008) (ISI mark) and abov	e	
	ground level using PPR-C pipe with standard PPR fittings/ GI pipes in th	e	
	premises for fixing a tap / meter box (excluding) , including accessorie	s	
	with flushing, cleaning; disinfecting and testing of pipe line complet	e	
	required for making of service connection complete in all respective	t	
	including labour charges . The service line should be laid at least 45 cr	n	
i a statu			
	below ground level.		
	name of this item and na	id	
	Note: Road cut and restoration is not part of this item and pa		
	separately.	- 14	

Pipe line work

S. No.	Description	Unit	Amended Rate (Rs.)
1.23.1	For connection with 20 mm dia MDPE/PPR-C pipe length up to 05 mtr.	Each	1779.00
1.24	P & F Bib cock (IS : 8931 mark), superior quality of approved make , brass 400 gm, 15 mm nominal bore.	Each	328.00
	P & F Bib cock (IS : 8931 mark), superior quality of approved make,	Each	348.00
1.25	chrome plated with complete brass body including brass handle with wt. 300 to 325 gm.15 mm nominal bore.		
	Road cutting for house hold service connection in minimum trench	Mtr	197.00
and the second	width wherever road crossing is required. Road cutting of cement		
	concrete,WBM, Black top etc. of all thickness shall be done by using		· · · ·
1.26	a concrete cutter machine keeping minimum trench width and		
	restoration of the road with Cement concrete with PCC M-10 and CC		
	M-30 grade as per specification and direction of Engineer in charge.		
4			
	Add extra over item no 1.21, 1.22 & 1.23 for providing 20 mm PE 80		
1.37	PN 16 as per ISO 4427 MDPE pipe including excavation, providing,	Mtr	46.00
1.27	laying & jointing of service line above 5.00 mtr.	iviti	
	Add extra over item no 1.21, 1.22 & 1.23 for providing 20 mm ISI	<u> </u>	
	marked PN16 SDR 7.4 (IS:15801:2008) PPR-C (Three layered) pipe	· · · ·	
1.28	including excavation, providing, laying & jointing of service line above	Mtr	60.00
	5.00 mtr.	· .	
			L
· · · · · · · · · · · · · · · · · · ·	PVC-O Pipe		
	Providing, lowering, laying and jointing in trenches, standard lengths		
	ISI marked Rigid PVC-O S/S Pipes (push on joints) as per IS-16647:		
	2017 (amended upto date) with EPDM Gasket seals on joints		
	including all taxes, transportation and freight charges, inspection	-	1
	charges, loading/ unloading charges, stacking of pipes, laying of pipes,		
1.29	including cost of labour and material, specials (Tee, bend etc.),		
	satisfactory hydraulic testing, disinfection etc. complete as per		
	technical specifications and direction of Engineer-in-charge of	n de la tra	
	following class and diameter.		
	Note : Providing and fixing of all requisite specials as per drawing,	$M \in \mathbb{R}^{n \times n}$	
	design and layout are inclusive in RM measurement of the item and		
	shall not be paid separately.		
1.29.1	PVC-O pipe Class 500 PN-16	RMT	959.00
1.29.1.1	110 mm dia	RMT	1641.00
1.29.1.2	160 mm dia	RMT	1948.00
1.29.1.3	200 mm dia	RMT	2641.00
1.29.1.4	250 mm dia		3357.00
1.29.1.5	315 mm dia	RMT	
<u> </u>	PTMT Bib Cock		<u> </u>
	Providing and fixing ISI mark (IS 9763: 2000 or amended upto		
	date) <b>PTMT bib cock</b> 15 moinal bore minimum weight 92 gms		
1.30	and length 100 mm as per technical specification, approved make		196.00
· ,	and length 100 min as per technical specification, approved make	." 	

2 9

# Construction and Commissioning of Tube wells, Open Wells & Hand Pumps.

5. No.	Description	Unit	Amended Rat (Rs.)
	TUBE WELLS		
2.1	Construction of tube well from ground level & up to 100 mtr depth to		
2.1	accommodate housing and assembly pipe of following sizes in all type of		·
	alluvium strata unconsolidated formation such as pebbles, boulders etc. by		
1.1	alluvium strata unconsolitated ion new IS-2800 Part 1, 1991 and IS-2800 Part		· · · ·
	percussion/rotary drilling method as per IS:2800 Part 1: 1991 and IS:2800 Part		
	II: 1979 (both amended up to date) and technical specifications, with gravel as		
1.1	per IS:4097-1967 and it's packing as per IS: 2800 (Part I & II) 1979 as amended	· · · ·	
	up to date (the work includes the cost of gravel & it's primary packing and		
	packing during development, lowering of housing & strainer assembly pipes	•	
	with supply and wrapping of coir-rope, wherever necessary for arresting fine		
	sand particles and development work, but excluding the cost of housing and	•	
	strainer pipe assembly). The work would be completed after obtaining sand		
	free water.		
2.1.1	Nominal bore 150 mm dia.	Mtr	999.00
2.1.2	Nominal bore 200 mm dia.	Mtr	1529.00
2.1.3	Nominal bore 250 mm dia.	Mtr	1790.00
2.1.4	Add 15% extra on above item (Item no 2.1.1 to 2.1.3) for drilling depth beyond		
	100 mtr and up to 200 mtr, rate shall be applicable for only extra depth beyond	· .	
	100 mtr and up to 200 mtr.	i e e e	
	Frank of a little doubt house	<u> </u>	
2.1.5	Add 40% extra on above item (Item no 2.1.1 to 2.1.3) for drilling depth beyond	1	
	200 mtr, rate shall be applicable for only extra depth beyond 200 mtr .		
2.2	Construction of Tube Well from ground level and up to 100 mtr. depth to		
<b></b>	accommodate housing and assembly pipe in all type of alluvium strata,		
	unconsolidated formation such as pebbles, boulders etc. by percussion/ rotary		
	drilling method as per IS:2800 Part 1: 1991 and IS:2800 Part II: 1979 (both	· · · ·	
	amended up to date) and technical specifications for removal of overburden.		
	The work includes the cost of lowering of casing pipe, but excludes the cost of		
	casing pipe.		
		Mtr	1233.00
2.2.1	Nominal bore 200 mm dia.	Mtr	1390.00
2.2.2	Nominal bore 250 mm dia.	IVICI	
2.2.3	Add 15% extra on above item (Item No 2.2.1 to 2.2.2) for drilling depth beyond	1997 - 19	
	100 mtr, rate shall be applicable for only extra depth beyond 100 mtr .	n in the second	
	the second detiling by retard (percussion		
2.3	Construction of tube well-after completion of drilling by rotary /percussion		
	method & up to 100 mtr. depth in all type of rocks by DTH system as per		
	IS:2800 Part 1: 1991 and IS:2800 Part II: 1979 (both amended up to date) and		
	technical specifications. The work shall be deemed completed only after		
age a sta	obtaining sand free water. The bore well should have a throughout nominal		
	size bore beyond casing pipe.	Mtr	878.00
2.3.1	Nominal bore 150 mm dia.	Mtr	1269.0
2.3.2	Nominal bore 200 mm dia.	Mtr	1533.0
2.3.3	Nominal bore 250 mm dia.		10000
2.3.4	Add 15% extra on above item (Item No 2.3.1 to 2.3.3) for drilling depth beyond		
- 1973 - 1973	100 mtr and up to 200 mtr from ground level, rate shall be applicable for only		
	extra depth beyond 100 mtr and up to 200 mtr.		
			~

. No.	Description	Unit	Amended Rat (Rs.)
2.3.5	Add 30% extra on above item (item No 2.3.1 to 2.3.3) for drilling depth beyond 200 mtr and from ground level, rate shall be applicable for only extra depth beyond 200 mtr.		
2.3.6	Add 15% extra on above item (Item No 2.3.1 to 2.3.3) for drilling, where strata	· · · · ·	
2.3.0	is collapsible and lowering of casing pipe is required . The work includes lowering of casing pipe, but excluding the cost of casing pipe. The rate shall be		
÷	applicable for stretch of collapsible strata only.		n de la companya de l La companya de la comp
2.4	Construction of Tube Well up to 100 mtr. depth in all type of rocks by DTH system & over burden to accommodate casing pipe of following sizes in all		· · ·
•	types of soils & over burden including lowering of casing pipes, (if required)		
	excluding cost of casing pipes, as per IS:2800 Part 1: 1991 and IS:2800 Part II:		
	1979 (both amended up to date) and technical specifications. The work would be completed after obtaining sand free water. The tube well should have a		
	through out bore as per nominal dia of casing pipe.		
2.4.1	Nominal bore 150 mm dia.	Mtr	729.00
2.4.2	Nominal bore 200 mm dia.	Mtr	1094.00
2.4.3	Add 15% extra on above item (Item No 2.4.1 to 2.4.2) for drilling depth beyond	· · ·	
	100 mtr and up to 200 mtr from ground level, rate shall be applicable for only extra depth beyond 100 mtr and up to 200 mtr.		
2.4.4	Add 30% extra on above item (Item No 2.4.1 to 2.4.2) for drilling depth beyond		
	200 mtr and from ground level, rate shall be applicable for only extra depth beyond 200 mtr .		
2.4.5	Add 15% extra on above item (Item No 2.4.1 to 2.4.4) for drilling, where strata		·
	is collapsible and lowering of casing pipe is required . The work includes		
2	lowering of casing pipe, but excluding the cost of casing pipe. The rate shall be applicable for stretch of collapsible strata only.		
2.5	Construction of tube well from ground level and up to 100 mtr. depth and		
	above of following sizes in all types of soils in alluvium strata, unconsolidated		
	formation such as pebbles, boulders etc. by "bailing" method and without	i.	
	gravel packing as per IS:2800 Part 1: 1991 and IS:2800 Part II: 1979 (both amended up to date) and technical specifications. The work includes formation		
	of cavity at bottom by development with appropriate air compressor or bailer		
	pumping and also lowering of casing pipe but excluding cost of the casing pipe.		
	The tube well should have a throughout bore as per nominal dia of casing pipe.		
, si	The work would be completed after obtaining sand free water.	i to i Sec	
2.5.1	Nominal bore 125 mm dia.	Mtr	487.00
2.5.2	Nominal bore 150 mm dia.	Mtr	543.00
2.5.3	Nominal bore 200 mm dia.	Mtr	897.00
2.6	Construction of tube well from ground level and up to 100 mtr depth and	-	
	above to accommodate housing assembly pipe in all type of unconsolidated formation such as pebbles, boulders, collapsible formation etc. by Odex drilling	•	
	method as per IS: IS:2800 Part 1: 1991 and IS:2800 Part II: 1979 (both amended		
·. ·	up to date) and technical specifications. The work will include lowering of		
	housing and strainer pipe assembly and casing shoe including cost of casing shoe, but excluding cost of the casing pipe. The work would be completed after	e e Record	
2.6.1	obtaining sand free water. Nominal bore 125 mm dia.	Mtr	834.00
2.6.2	Nominal Bore 150 mm dia.	Mtr	1139.00
2.0.2		IAIFI	

TW, OW, HP

S. No.	Description	Unit	Amended Rate (Rs.)
2.6.3	Nominal bore 200 mm dia.	Mtr	1670.00
2.6.4	Add 15% extra on above item (Item No 2.6.1 to 2.6.3) for drilling depth beyond	· .	
2.0.4	100 mtr, rate shall be applicable for only extra depth beyond 100 mtr .		
	Too mill, fute shell so upp		
	Deepening of existing tube well by DTH system beyond existing depth up to 100		
2.7	Deepening of existing tube well by DTH system beyond existing dependence and obtaining		· · ·
	mtr. and above in all type of rocks including flushing of tube well and obtaining		
	sand free water.	Mtr	927.00
2:7.1	Nominal bore 150 mm dia.	Mtr	1344.00
2.7.2	Nominal bore 200 mm dia.		
2.8	Testing verticality of tube well by plumbing system and yield test and draw	Each	8178.00
	down test by pumping system as per IS : 2800 (Part – II) – 1979 or as per	LUCH	0110.00
	amended up to date.		
2.9	Supplying & Packing P-gravel suitable for slot size/mesh size as suggested in IS	Cum.	4109.00
	2800 (Part-1) 1991 or as per amended up to date.		
2.10	Development of tube well having depth up to 250 mtr as per IS: 11189- 1985		
2.10	and IS: 2800 (Part- I)- 1991 (both amended up to date) using suitable methods	1 <b>.</b>	1467.00
	to give sand free water for required yield of the gravel packed tube well.	Hr.	1407.00
	to give sand free water for required yield of the grater pattern		
	Supply of ERW M.S. black casing pipe ISI marked (IS: 4270/2001) or amended		
2.11	Supply of ERW M.S. black casing pipe is marked (is: 42,0,2002) of anis		
	up to date of following sizes	Mtr	1920.00
2.11.1	150 mm dia NB(Thickness of pipe 5.0 mm & mass of tube 20.13 Kg/m)	Mtr	2715.00
2.11.2	200 mm dia NB (Thickness of pipe 5.4mm & mass of tube 28.46 Kg/m)	Mtr	4443.00
2.11.3	250 mm dia NB (Thickness of pipe 7.1 mm & mass of tube 46.57 Kg/m)		
2.12	Labour charges for making slots on blank pipes made of ERW MS black pipe ISI	•	
	marked of following sizes, the slotting should be as per IS:8110-1985.		
		Mtr	173.00
2.12.1	125 mm dia nominal bore of 4.8 mm thickness	Mtr	204.00
2.12.2	150 mm dia nominal bore of 4.8 mm thickness	Mtr	311.00
2.12.3	200 mm dia nominal bore of 5.4mm thickness	Mtr	389.00
2.12.4	250 mm dia nominal bore of 7.1mm thickness		
2.13	Providing & laying ISI marked GI Pipe Light duty ( "A" class) as per IS: 1239 for	Mtr	388.00
	casing pipe for submersible cable external work 40 mm dia complete in all	10,01	
	respect.		
2.14	Supply & Installation of single phase ISI marked submersible motor pump set	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
	of three star or better rating of BEE and as per IS: 8034-2018 (pump) and IS		
	loses-2013 (motor) or as amended up to date of approved make of following	·	
	duty condition with required accessories including making connection suitable		
	for tube well/DCB. The job includes lowering of motor pump, installation of		
	complete fitting & accessories, jointing of electrical cables up to switch board	1	
	testing of submersible pump set and interconnection up to water many	1	
	complete in all respect.		
. •		ĸw	16541.0
2.14.	1 Up to 2.0 KW	KW	12896.0
2.14.	A hove 2.0 KW		
2.15	Supply & Installation of 3 phase ISI marked submersible motor pump set of		
1	three star or botter rating of BFF and as per IS: 8034-2018 (pump) and is 9203	) <sup>-</sup>	
	12012 (motor) or as amended up to date of approved make of following dut	· Y j	
	leandition with required accessories including making connection suitable to		1 - P.
	hube well/DCP. The job includes lowering of motor pump, instanation of	<b>7</b>	
	accessories, jointing of electrical caples up to switch board	~/·]	· ·
1	testing of submersible pump set and interconnection up to water many	3,	
1 - 1 <sup>- 1</sup>	complete in all respect.		
			·
	1 Up to 5.5 KW (7.5 HP) & head up to 120 mtr.	KW	9282.0
	1 Up to 5.5 KW (7.5 RF) & nead up to 120 mm	KW	9988.0
2.15	a subtrant the subtrant shows 120 mtr		

TW, OW, HP

	Description	Unit	Amended Rat (Rs.)
5. No.		KW	7143.00
	7.5 KW (10 HP) & head up to 120 mtr.	ĸw	7881.00
	7.5 KW (10 HP) & head above 120 mtr.	KW	6153.00
2.15.5	9.3 KW (12.5 HP) & head up to 120 mtr.	KW	7997.00
2.15.6	9.3 KW (12.5 HP) & head above 120 mtr.	KW	5942.00
2.15.7	11 KW (15 HP) & head up to 120 mtr.	KW	6659.00
2.15.8	11 KW (15 HP) & head above 120 mtr.		5700.00
2.15.9	13 KW (17.5 HP) & head up to 120 mtr.	KW	
2.15.10	13 KW (17.5 HP) & head above 120 mtr.	KW ·	6069.00
2.15.11	15 KW (20 HP) and above, head up to 120 mtr.	KW	5299.00
2.15.12	15 KW (20 HP) and above, head above 120 mtr.	KW	5995.00
2.16	Supply and Fixing of Electric feeder panel (having projected canopy)for		
2.10	submersible numn set Single phase up to 5 HP, comprising of DOL Starter, MCB,		
	Indicating light Ammeter, Volt meter, connection plate, condensels of		
	approved make and the panel enclosure should be made out from 18 gauge		
· . ·	IN S Sheet with nowder coating. Panel size Height 600 mm width 500 min		
1 I.	donth 250 mm with Stand ( made of angle iron of size 35x35x5mm) uny		de la serie de
- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	bolted/screwed with enclosure box having 4 legs, each leg's length 18" and	Each	10009.00
	double door including in built locking system. The legs should be embedded in		
	M-15 cement concrete platform. The size of CC platform should be equal or	ener de la composition de la compositio	
	bigger than the base size of panel having height of at least 200 mm from		
	ground level. The operation of panel should be suitable for on 240 Volt AC		
	Supply.		
2.17	Supply and Fixing of electric control feeder panel comprising of suitable rating		
2.17	MCCB, DOL starter, overload relay, ampere meter, volt meter, phase preventer,	· · .	
	phase indicators, lighting arrangement etc. complete suitable for three phase		A Market
	pump set. The panel should have space for energy meter ( supplied by		
	DISCOM). All these equipments shall be housed by panel box made out from 18		
	gauge M.S. Sheet with powder coating. Panel should be of minimum size 900 x		
	600 x 300mm with Stand ( made of angle iron of size 35x35x5mm) duly	/	
1 (A)	holted/screwed with enclosure box having 4 legs, each leg's length 18 and	4	
1.12.2	double door including in built locking system. The legs should be embedded in	4	
	IM-15 cement concrete platform. The size of CC platform should be equal of		
	bigger than the base size of panel having height of at least 200 mm non	<u> </u>	
.+	around level. The namel should have opening of suitable size in front of space	5	
	for energy meter with glass for meter reading. The operation of panel should	1	
	be suitable for on 440 Volt AC Supply.		
1997 - 1997 1997 - 1997			
2.17.1	Up to 5.00 HP	Each	13081.0
2.17.1	Supply and Fixing of electric control feeder panel comprising of suitable ratin	g	
2.10	MCCR fully automatic star-delta starter, over load relay, ampere meter with	11	
s. i s	CTc volt meter phase preventer, suitable starting capacitors, phase indicators	24	
1.1.1.1	lighting arrangement etc. complete suitable for three phase pump set. In	¢	
	inanol should have snace for energy meter ( supplied by DISCOW). All these		
	any inmonte shall be housed by panel box made out from 18 gauge M.S. Siles	51.	
	with newder coating Panel should be of minimum size 900 x 600 x 450 min		
	with Stand / made of angle iron of size 35x35x5mm) duly bolled/sciewed with	ang i i	
	and acure boy baying A legs each leg's length 18" and double door including		
L :	huilt locking system. The legs should be embedded in M-15 cement consist		
l	a late form. The size of CC platform should be equal or bigger than the base sh		
	af panel having beight of at least 200 mm from ground level. The parter shou	i u l	
	I have enough of suitable size in front of space for energy meter with glass in	"	
1	meter reading. The operation of panel should be suitable for on 440 Volt A	vc	
	Supply.		
		i Each	25192

, No.	Description	Unit	Amended Rat (Rs.)
	Above 10 HP and up to 15 HP	Each	29204.00
.18.2	Above 10 HP and up to 20 HP	Each	33236.00
2.18.3		Each	39375.00
2.18.4	Above 20 HP and up to 30 HP		
2.19	Supply & Fixing of ISI marked three core PVC flat submersible cable as per IS	an a	
	694:1990 or amended up to date and conductor as per class 5 of IS 8130:1980		
5 <sup>1</sup> - 1	including making connection etc.		
. 10.1		Mtr	211.00
2.19.1	3 core 4.0 Sq.mm 3 core 6.0 Sq.mm	Mtr	314.00
2.19.2	3 core 0.0 Sq.mm	Mtr	538.00
2.19.3	3 core 16.0 Sq.mm	Mtr	802.00
2.19.4	Supply & Fixing XLPE insulated / P.V.C. sheathed cable of 1.1 KV grade with		
2.20	aluminium conductor Armoured of IS:7098-I/1554-1 approved make in ground		
	as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick	:	
	under layer of sand, second Class bricks covering, refilling earth, compaction		
	of earth, making necessary connection, testing etc. as required of size.		
	of carrier, maxing receiver, r		
2.20.1	10.0 Sq.mm, 4 core	Mtr	230.00
		Mtr	264.00
2.20.2	16.0 Sq.mm, 4 core 25.0 Sq.mm, 3.5 core	Mtr	343.00
2.20.3	35.0 Sq. mm, 3.5 core	Mtr	415.00
2.20.4	Plate Earthing as per IS:3043 with G.I. Earth plate of size 600mm x 600mm x		
2.21	6.0mm by embodying 3 to 4 mtr. below the ground level with 20 mm dia. G.I.		
1.1	'B' class watering Pipe including all accessories like nut, boits, reducer ,nipple,		
	wire meshed funnel, and C.C. finished chamber covered with hinged type with	Each	3651.00
	locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete	·	
-	with alternate layers of salt and coke/charcoal, testing of earth resistance as		
	required.		
2.22	Supply & Fixing M S clamp set of 50x6 mm flat from iron with nuts and bolts		
2.22	etc. for holding the riser pipe assembly of submersible pump set.	Each	727.00
1999 - A.			
2.23	Supply & Fixing tube well cover of MS sheet 8mm thick at top & 5mm thick		
· .	100mm wide shroud around the edge so as to form a cap on the top end of		
	leasing pipe with GLNipple 45cm long & two GL flanges at both ends in solution		
	leight passing through a hole in the centre of MS sheet. A 25 mm socket with		
÷.,	lend nug shall also he welded over top plate. A GI nipple having outside thread	:	
	of size 1/2" (for installation pressure gauge) shall be provided & welden with		a the
	80mm GI nipple near top plate nipple shall be provided with end plug.		
		Each	788.00
2.23.1		Each	848.00
2.23.2		Each	1030.00
2.23.3		Each	1212.0
2.23.4	250 mm dia		
2.24	Providing & Lowering in tube well ISI marked GI Pipe medium duty ("B" class),		
	Steel tube as per IS:1239 or amended up to date and zinc coating as per IS	d	
•	4736, threaded and double flanged (welded) on both ends and two number		
· · ·	25x3mm MS flat welded on both ends between pipe & flange, rubber washer 8		
	nut bolts etc. complete in all respect.	Mtr	419.00
2.24.		Mtr	659.00
2.24.		Mtr	729.00
2.24.	3 65 mm dia	Mtr	899.0

S. No.	Description	Unit	Amended Rat (Rs.)
2.25	Providing & Lowering in tube well ISI marked HDPE pipe as per IS 4984:1995 or		n than a th
2.29	amended up to date in PE 80 grade and class PN 10 of following dia. Including		
	HDPE/GI fittings and PVC rope confirming to IS 5175:1992 or amended up to	· · · ·	
	date, along with clamping of submersible cable etc. complete in all respect.		
	date, along with clamping of submitting a submitting of submitting of submitting of submitting of submitting of		· · · ·
2.25.1	40 mm dia	Mtr	96.00
2.25.2	50 mm dia	Mtr	148.00
2.25.3	63 mm dia	Mtr	235.00 332.00
2.25.4	75 mm dia	Mtr	472.00
2.25.5	90 mm dia	Mtr	472.00
2.26	Providing, installing, testing and commissioning of double flanged bulk flow	. · · ·	
	meter with removable mechanism, of class B conforming to ISO 4064/1 or		
	amended up to date of approved make including cost of all material and		
	labour as per specifications with GI Box (sheet 16 SWG) suitable with locking		
	arrangement of following dia.	Fach	11801.00
2.26.1	50 mm dia	Each	13350.00
2.26.2	65 mm dia	Each	15550.00
2.26.3	80 mm dia	Each	15/52.00
2.27	Providing & Fixing pump safety cage as per specifications or as directed by	Each	1106.00
	Engineer in charge		
2.28	Providing and Fixing of ISI marked PVC storage tank of following capacity as		
	her IS 12701-1989 (of approved make) with cover, 25 mm dia. 1 mtr long of	· · · ·	
	overflow nipe, 25 cm long 25 mm dia washout GI pipe with plug & socket,		
e de la de	lincluding P&F 32 mm dia Ball Cock (Float valve) IS 1703 marked with rod and		
	love ball complete with brass weight 1000 gm, including P&F 15mm dia Cl		
	quarter turn heavy duty Bib Cocks four no's of superior quality and approved	1. A.	
	make, including interconnections complete job.		0524.00
2.28.1	1000 litres capacity	Each	8534.00
2.28.2	2000 litres capacity	Each	16436.00
2.29	Fabrication & Fixing M.S. Stand of specified class of angle iron L-shaped of 50		
	mm size with four legs grouted by 300*300 mm CC Block M-15 in the	1.m	117.00
	ground and all less tied up with each other through same size of angle iron	kg	117.00
	along with cross bars to support the bottom of 1000 Ltr./ 2000 Ltr. PVC tank		
	complete in all respect		
2.30	Providing & Fixing of double flanged, Cl body, ISI marked NRV of approved		
	make of following sizes	Each	2644.00
2.30.1	65 mm dia	Each	3192.00
2.30.2	80 mm dia		
2.31	Proving and Fixing 32 mm dia Full way valve or wheel valve as per IS:778 or	Each	832.00
	amended up to date of approved make, on pump delivery pipe.		052.00
· · ·	the second displayer hourdon type		
2,32	Supplying & Installing 100 mm diameter sealed diaphragm bourdon type	Each	1243.0
	pressure gauge of range 0 to 10 kg. including all jointing material as per		
	specification with safety cover,		
2.33	Construction of bore hole for shallow depth tube well from ground level to		
	required depth for following size for all type of relevant strata by percussion/		
1. N. N.	rotary drilling/ hand boring method excluding cost of casing pipe. The bore		
n de la composición d La composición de la c	hole should be as per nominal bore of PVC casing pipe. The work will be	1	
	complete after obtaining sand free water.	Mtr.	347.0
2.33		Mtr.	387.0
2.33.		Mtr.	
2.33.		Mtr.	
•	4 250 mm dia nominal bore		

S. No.	Description	Unit	Amended Rat (Rs.)
2.34	<b>Providing and Lowering</b> of ISI mark PVC-U casing and screen pipe as per IS : 12818 : 2010 or amended up to date having pipe thickness as per IS code	· · ·	
	suitable for TW and DCB with threading , winding with superior quality of plastic mesh & rope in three layers with end cap complete as per technical	•	
	specification and direction of Engineer In charge.		
2.34.1	Shallow well casing pipe (CS) suitable for depth up to 80 mtr.		
2.34.1.1	150 mm nominal dia ( internal dia ).	Mtr	648.00
2.34.1.2	200 mm nominal dia ( internal dia ).	Mtr	1189.00
2.34.1.3	250 mm nominal dia ( internal dia ).	Mtr.	1857.00
2.34.2	Medium well casing pipe (CM) suitable for depth above 80 mtr and up to 250 mtr.		
2.34.2.1	100 mm nominal dia ( internal dia )	Mtr.	386.00
2.34.2.2	125 mm nominal dia ( internal dia )	Mtr.	614.00
2.34.2.3	150 mm nominal dia ( internal dia )	Mtr	840.00
2.34.2.4	200 mm nominal dia ( internal dia )	Mtr	1520.00
2.34.2.5	250 mm nominal dia ( internal dia )	Mtr.	2364.00
2.35	Supply of ISI mark AC pressure pipe class 15 manufactured by MAZZA process		· .
	as per IS:1592-2003 or amended up to date, for casing of tube well for		
	following dia nominal bore, with jointing material PVC coupler as per technical specification and direction of Engineer In charge.		
2.35.1	125 mm nominal dia	Mtr	371.00
2.35.2	150 mm nominal dia	Mtr	583.00
2.35.3	200 mm nominal dia	Mtr	959.00
2.35.4	250 mm nominal dia	Mtr	1261.00
2.35.5	300 mm nominal dia	Mtr	1829.00
2.36	Making slots of hole size and Nos. as directed by EIC in AC pressure pipe Class 15 as per technical specification for using slotted pipe in TW casing.	Per 100 no	97.00
······	RCC OPEN WELLS		
2.37	Dry sinking of well true & vertical in all types of soil including sand, silt, clay,		
	mixed up to 25% with gravel and river bed stones up to size 300 mm in any		
	direction complete as per drawing and technical specification (depth from level		
	of placing of cutting edge & internal dia, to be taken for measurement) rate		
	includes all percentage of pebbles, boulders and river bed stones. (depth to be		
<u> </u>	measured from ground level)		
2.37.1	for depth up to 5.00 m	P.M. dia P.M. depth	1527.00
2.37.2	for depth from 5.00 m to 10.0 mtr	P.M. dia P.M. depth	2117.00
2.37.3	for depth from 10.0 m to 15.0 mtr	P.M. dia P.M. depth	2539.00
2.37.4	for depth from 15.0 m to 20.0 mtr and above.	P.M. dia P.M. depth	2963.00

TW, OW, HP

S. No.	Description	Unit	Amended Rat
2.38	Wet sinking of well in all type of strata (soil & boulders in any quantity) including required operations like chiselling, air and water jetting, hoist drives, skilled divers etc. for removal of isolated obstructions and minor blasting if required and lifting of excavated material up to ground level, and spreading the same with ramming and watering within a radius of 50 m from the site of open well.		
	well. Rate includes all percentage of pebbles, boulders and river bed stones. (depth to be measured from ground level)		
2.38.1	for depth up to 5.00m	P.M. dia P.M. depth	2197.00
2.38.2	for depth from 5.00m to 10.0 mtr	P.M. dia P.M. depth	3622.00
2.38.3	for depth from 10.00m to 15.0 mtr	P.M. dia P.M. depth	4596.00
2.38.4	for depth from 15.0 m to 20.0 mtr	P.M. dia P.M. depth	5479.00
2.38.5	for depth from 20.0 m to 25.0 mtr	P.M. dia P.M. depth	6655.00
2.38.6	for depth from 25.0 m to 30.0 mtr and above.	P.M. dia P.M. depth	7832.00
2.39	Earth work in excavation over areas (exceeding 30cm depth, 1.5 mtr in width and 10 SQM in plan) for construction of open well, lift up to 1.5 Mtr. including taking out the excavated soil and disposal of surplus excavated soil as directed within a lead of 50 meter.		
2.39.1	All kind of soil	CUM	316.00
2,39.2	Ordinary Rock	CUM	677.00
2.39.3	Hard Rock (Requiring blasting)	CUM	980.00
2.39.4	Hard Rock (Blasting Prohibited)	CUM	1360.00
2.40	Add extra over item No. 2.39.1 for every additional lift of 1.5 Mtr. or part thereof : In all kind of soils.	CUM	47.00
2.41	Add extra over item No. 2.39.2-4 for every additional lift of 1.5 Mtr. or part thereof : In Ordinary rock and hard rock.	CUM	67.00
2.42	Add 20% extra over item No. 2.39 for excavation in saturated soil where pumping or baling out of water is required, including shoring strutting where required and dewatering.		
2.43	Labour charges for horizontal boring 100 mm dia in open well in rocky strata with all types of rock cutting & drilling tools etc. including all T&P required for job including dewatering arrangement.	Mtr	655.00

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TW, OW, HP

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5. No.	Description	Unit	Amended Rate (Rs.)
	HAND PUMPS		
2.44	Construction of tube well from ground level & up to 100 mtr depth to		
	accommodate housing and assembly pipe of following sizes in all type of		
1	alluvium strata unconsolidated formation such as pebbles, boulders etc. by		
11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	percussion/rotary drilling method as per IS:2800 Part 1: 1991 and IS:2800 Part		
	II: 1979 (both amended up to date) and technical specifications, with gravel as	1. 14.1	
	per IS:4097-1967 and it's packing as per IS: 2800 (Part I & II) 1979 as amended		
	up to date (the work includes the cost of gravel & it's primary packing and		
	packing during development, lowering of housing & strainer assembly pipes		
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	with supply and wrapping of coir-rope, wherever necessary for arresting fine		
	sand particles and development work, but excluding the cost of housing and		
	strainer pipe assembly). The work would be completed after obtaining sand		·
	free water.		a la
	Hee water.		
2.44.1	Nominal bore 125 mm dia.	Mtr	669.00
2.44.2	Add 15% extra on above item for drilling depth beyond 100 mtr, if depth of		
	bore is more than 100 mtr.		
2.45	Construction of Tube Well up to 100 mtr. depth in all type of rocks by DTH	•	
	system & over burden to accommodate casing pipe of following sizes in all		
	types of soils & over burden including lowering of casing pipes, (if required)		
	excluding cost of casing pipes, as per IS:2800 Part 1: 1991 and IS:2800 Part II:	•	
	1979 (both amended up to date) and technical specifications. The work would	· . ·	
te en	be completed after obtaining sand free water. The tube well should have a	· .	
	through out bore as per nominal dia of casing pipe.		
2.45.1	Nominal bore 100 mm dia.	Mtr	472.00
2.45.2	Nominal bore 125 mm dia.	Mtr	539.00
2.45.3	Add 15% extra on above item for drilling depth beyond 100 mtr, If depth of		
	bore is more than 100 mtr.		-
2.46	Construction of tube well from ground level and up to 100 mtr. depth and		
	above of following sizes in all types of soils in alluvium strata, unconsolidated		
1997 - P.	formation such as pebbles, boulders etc. by bailing method and without gravel		
	packing as per IS:2800 Part 1: 1991 and IS:2800 Part II: 1979 (both amended up		
	to date) and technical specifications. The work includes formation of cavity at		
. î.	hottom by development with appropriate air compressor or bailer pumping		
	and also lowering of casing pipe but excluding cost of the casing pipe. The tube		n an an an Arthur Tha an Arthur
1	well should have a throughout bore as per nominal dia of casing pipe. The		
	work would be completed after obtaining sand free water.		
		Mtr	341.00
2.46.1	Nominal bore 100 mm dia.	Mtr	373.00
2.46.2	Nominal bore 125 mm dia.		
2.47	Supply of ERW M.S. black casing pipe ISI marked {IS:1239(Part-1:2004)}		
	medium of following sizes at site of work.	Mtr	1286.00
2.47.1	100 mm dia NB (Thickness of pipe 4.5 mm & mass of tube 12.50 Kg/m)	Mtr Mtr	1603.00
2:47.2	125 mm dia NB( Thickness of pipe 4.8 mm & mass of tube 16.40 Kg/m)	and the second se	1005.00
2.48	Providing and Lowering of ISI mark Medium well PVC-U casing and screen		
	pipe (CM) as per IS : 12818 : 2010 or amended up to date having pipe thickness		
	as per IS code suitable for bore well with threading , winding with superior		
	quality of plastic mesh & rope in three layers with end cap complete as per		
	technical specification and direction of Engineer In charge.		
2.48.1	100 mm nominal dia ( internal dia ).	Mtr	386.00
•		<u> </u>	
2.48.2	125 mm nominal dia ( internal dia ).	Mtr	614.00

S. No.	Description	Unit	Amended Rate (Rs.)
2.49	Labour charges for making slots on blank pipes made of ERW MS black pipe ISI marked of following sizes, the slotting should be as per IS:8110-1985.		
2.49.1	100 mm dia nominal bore	Mtr	133.00
2.49.2	125 mm dia nominal bore	Mtr	171.00
2.50	Supply & installation of GI pipe 32 mm medium class "B" with pipe sockets (heavy duty).	Mtr	401.00
2.51	Supply and installation of ISI marked India Mark II Hand pump set complete with cylinder & 15 connecting rods.	Set	16473.00
2.52	Supply and installation of ISI Marked India Mark II Hand pump set Extra-Deep (EDW) complete with cylinder and connecting rods.		
2.52.1	EDWHP + 20 Connecting rod.	Set	18648.00
2.52.2	EDWHP + 23 Connecting rod + 1 Weight.	Set	20762.00
2.52.3	EDWHP + 26 Connecting rod + 2 Weight.	Set	22378.00
2.52.4	EDWHP + 30 Connecting rod + 3 Weight.	Set	22875.00
2.53	Supply and installation of ISI mark connecting rod as per departmental specifications. of 3 meter length.	Each	183.00
2.54	Installation of India Mark II/III E.D. I & II hand pump set complete on existing platform.	Each	868.00
2.55	Construction of 185 cm. dia platform as per approved design & drawing of UNICEF.	Each	3502.00

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### Chapter 3

### **RCC** Reservoirs

		Unit	Amende
. No.	Description		Rate (Rs
3.1	Construction and commissioning of RCC flat slab Over Head Service Reservoir of	· ·	
э.т і	following capacity and staging including all material and labour charges as per the Scope		
	of work and Technical Specification, consisting of the following main activities: -	1 - A	P
	a) Topographic survey, preparation of site contour plan, conducting SBC test and its		
	approval from department before construction. Submission and approval of concrete mix		
	design and water quality test report for water to be used in construction.		
	b) Excavation in all types of soil, PCC below foundation, all RCC Work, Plinth protection all		· · ·
	around the structure including all material, labour, shuttering, scaffolding etc.		
	c) OHSR shall be provided with adequate plinth protection all around the structure in a		
	width starting from edge of structure at GL and extending at least up to 1.0m beyond the		l .
	edge of outer most projection of OHSR. The plinth protection shall consist of 150mm thick	ч. Тар	
	PCC in M-15 grade concrete laid over 150mm thick layer of compacted soil.	÷.,	
	d) Providing and applying two coats of food grade epoxy paint on the inside surface roof		
	d) Providing and applying two coals of food grade epoxy pains of the method of the		
	slab, and 600 mm height of the vertical wall.		
	e) Successfully hydro test and water tightness test as per I.S. code.		l .
	f) Providing and applying three coats of anti-carbonation paint on the top surface of the roof	1.1	
1997 - A	slab.		
	g) Providing and applying three coats of cement-based paint on the external surface of the		
÷.,	container, balcony, cone wall, columns & beams etc.		
1.	h) Providing and fixing SS-304 ventilator, SS 304 manhole frame and cover and SS-304 ladder	an a	
	from top Slab to bottom Slab inside container.	. <u>.</u> .	
	i) Providing and fixing of MS section ladder from the last landing to balcony and MS ladder		
N	with safety cage from balcony to top slab.		
	j) Providing and fixing water level indicator (float type).		1.1
	k) Providing and fixing of hand railing all around the balcony, roof and staircase, consisting		
	of 25mm diameter Class-B GI pipe in two rows and 1000 mm high, 50X50X6mm angle iron		
	vertical post at a maximum spacing of 1500mm centres.	1	
:	I) All MS parts to be painted with two coats of the enamel paint over the primer coat of red	۰.	
	loxide.		
	m) Providing and fixing of 150mm wide PVC water bar for the construction joints in the		
	container (vertical wall & cone wall).		
	n) Providing one Aluminium portable ladder of appropriate length to access first landing (3.5		1.1
	to 4.5m above GL) from ground.		
	o) Lighting arrestor consisting of providing and fixing of 2 Nos. of chemical earthing and		
	connecting it to the conical cover of SS ventilator with two separate GI strips of 50mmX3mm		
•	p) CI/DI puddle collar shall be fixed in the bottom/slab for connecting inlet, outlet, overflow		
	p) CI/DI puddle collar shall be med in the bottom, sub to company of		
	and washout pipe of the reservoir. (q) Painting the name of the scheme and other details on the reservoir, and any other work		
	(c) Painting the name of the scheme and other occurs of the sc		
•	Scope of Work. r) Inlet, outlet, overflow, washout pipes and valves are not included in this work, provision		e - 1
	r) inlet, outlet, overflow, washout pipes and valves are not included in the term, p		
·	for the same shall be taken separately.		
3.1.1	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-II & STAGING 15 M	Litro	42.
3.1.1.		Litre	
3.1.1.		Litre	35.
3.1.2	CELEBRIC TONE UL & STAGING 15 M	<u>  .</u>	
·		Litre	44.
3.1.2,		Litre	36.

RCC Reservoirs

Sr. No.	Description	Unit	Amended Rate (Rs.)
3.1.3	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-IV & STAGING 15 M		
	50 KL capacity	Litre	47.46
	75 KL capacity	Litre	39.47
3.1.4	Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 15 M		1
3.1.4.1	50 KL capacity	Litre	38.70
		Litre	30.45
3.1.4.2	75 KL capacity Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-III & STAGING 15 M		
3.1.5		Litre	39.65
3.1.5.1	50 KL capacity	Litre	31.34
3.1.5.2	75 KL capacity		1
3.1.6	Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-IV & STAGING 15 M	Litre	40.57
3.1.6.1	50 KL capacity	Litre	31.95
3.1.6.2	75 KL capacity	une	01.00
3.1.7	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-II & STAGING 15 M		1 27.14
3.1.7.1	50 KL capacity	Litre	37.14
3.1.7.2	75 KL capacity	Litre	29.23
3.1.8	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-III & STAGING 15 M		<u> </u>
3.1.8.1	50 KL capacity	Litre	38.47
3.1.8.2	75 KL capacity	Litre	30.27
3.1.9	Rates for RCC OHSR, SBC 18 T/sqm, SEISMIC ZONE-IV & STAGING 15 M		
3.1.9.1	50 KL capacity	Litre	39.31
3.1.9.2	75 KI capacity	Litre	31.01
3.2	Construction and commissioning of RCC INTZE type Over Head Service Reservoir of		
• .	<ul> <li>following capacity and staging as per the Scope of work and Technical specifications, consisting of the following main activities: -</li> <li>a) Topographic survey, preparation of site contour plan, conducting SBC test and its approval from department before construction. Submission and approval of concrete mix design and water quality test report for water to be used in construction.</li> <li>b) Excavation in all types of soil, PCC below foundation, all RCC Work, Plinth protection all</li> </ul>		
· .	around the structure including all material, labour, shuttering, scaffolding etc. c) OHSR shall be provided with adequate plinth protection all around the structure in a width starting from edge of structure at GL and extending at least up to 1.0m beyond the edge of outer most projection of OHSR. The plinth protection shall consist of 150mm thick PCC in M-15 grade concrete laid over 150mm thick layer of compacted soil. d) Providing and applying two coats of food grade epoxy paint on the inside surface on the		
	<ul> <li>top dome, edge beam and 600 mm height of the vertical wall.</li> <li>e) Conducting successfully hydro test and water tightness test as per I.S. code.</li> <li>f) Providing and applying three coats of anti-carbonation paint on the top surface of the Top Dome.</li> <li>g) Providing and applying three coats of cement-based paint on the external surface of the surface of the top surface of the surface o</li></ul>		
	container, balcony, cone wall, columns & beams etc h) Providing and fixing SS-304 ventilator, SS 304 manhole frame and cover and SS-304 ladder from top dome/Slab to bottom dome/Slab inside container. i) Providing and fixing of MS section ladder from the last landing to balcony having railing all around it and MS ladder with safety cage from balcony to top dome/slab.		
	j) Providing and fixing water level indicator (float type).		

Sr. No.	Description	Unit	Amende Rate (Rs.
т.	k) Providing and fixing of hand railing all around the balcony, top dome and staircase		
·. ·	consisting of 25mm diameter Class-B GI pipe in two rows and 1000 mm high, 50X50X6mm		
	angle iron vertical post at a maximum spacing of 1500mm centres.		
	I) All MS parts to be painted with two coats of the enamel paint over the primer coat of red		
	oxide.	-	
	m) Providing and fixing of 150mm wide PVC water bar for the construction joints in the		
	container (vertical wall & cone wall).		
	n) Providing one Aluminium portable ladder of appropriate length to access first landing (3.5	· · · ·	
	to 4.5m above GL) from ground.		
	o) Lighting arrestor consisting of providing and fixing of 2 Nos. of chemical earthing and		
	connecting it to the conical cover of SS ventilator with two separate GI strips of		
	50mmX3mm.		
	p) CI/DI puddle collar shall be fixed in the bottom dome/ slab for connecting inlet, outlet,		·
	overflow and washout pipe of the reservoir.		
	q) Painting the name of the scheme and other details on the reservoir, and any other work		
	related to structure as per the directions of Engineer-in- Charge, Technical Specification and		
	Scope of Work.		
	r) Inlet, outlet, overflow, washout pipes and valves are not included in this work,		
	provision for the same shall be taken separately.		0
3.2.1	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-II & STAGING 18 M		0
3.2.1.1	100 KL capacity	Litre	31.28
3.2.1.2	150KL capacity	Litre	24.50
3.2.1.3	200KL capacity	Litre	21.44
3.2.1.4	250KL capacity	Litre	20.90
	300KL capacity	Litre	21.67
·····	400KL capacity	Litre	19.80
3.2.1.7	500KL capacity	Litre	18.99
3.2.1.8	600 KL capacity	Litre	16.56
3.2.1.9	700 KL capacity	Litre	15.86
	800 KL capacity	Litre	15.27
	900 KL capacity	Litre	14.77
	1000 KL capacity	Litre	14.34
-	1250 KL capacity	Litre	13.46
	1500 KL capacity	Litre	12.79
	1750 KL capacity	Litre	12.75
3.2.1	2000 KL capacity Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-III & STAGING 18 M	Litre	11.79
		Litro	32.21
3.2.2.1	100 KL capacity	Litre	
	150KL capacity	Litre	25.55
3.2.2.3	200KL capacity	Litre	22.29
3.2.2.4	250KL capacity	Litre	21.98
	300KL capacity	Litre	22.40
	400KL capacity	Litre	20.52
	500KL capacity	Litre	19.66
	600 KL capacity	Litre	17.11
	700 KL capacity	Litre	16.38
	800 KL capacity	Litre	15.77
	900 KL capacity	Litre	15.26
	1000 KL capacity	Litre	14.80
	1250 KL capacity	Litre	13.91
	1500 KL capacity	Litre	13.20
	1750 KL capacity	Litre	12.64
	2000 KL capacity	Litre	12.17

RCC Reservoirs

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Sr. No.	Description	Unit	Amended Rate (Rs.)
	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-IV & STAGING 18 M		
	100 KL capacity	Litre	35.98
	LSOKL capacity	Litre	27.48
		Litre	23.75
	Econc capacity		- · · ·
	250KL capacity	Litre	22.80
	300KL capacity	Litre	23.53
	400KL capacity	Litre	21.24
	500KL capacity	Litre	19.77
	500 KL capacity	Litre	18.13
	700 KL capacity	Litre	17.22
	BOO KL capacity	Litre	16.47
	900 KL capacity	Litre	15.84
	1000 KL capacity	Litre	15.29
3.2.3.13	1250 KL capacity	Litre	14.19
3.2.3.14	1500 KL capacity	Litre	13.44
3.2.3.15	1750 KL capacity	Litre	12.78
3.2.3.16	2000 KL capacity	Litre	12.22
3,2.4	Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 18 M		
3.2.4.1	100 KL capacity	Litre	27.91
3.2.4.2	150KL capacity	Litre	21.59
3.2.4.3	200KL capacity	Litre	19.23
3.2.4.4	250KL capacity	Litre	18.36
3.2.4.5	300KL capacity	Litre	18.40
3.2.4.6	400KL capacity	Litre	15.41
3.2.4.7	500KL capacity	Litre	15.17
3.2.4.8	600 KL capacity	Litre	13.49
3.2.4.9	700 KL capacity	Litre	12,75
	800 KL capacity	Litre	12.15
	900 KL capacity	Litre	11.64
	1000 KL capacity	Litre	11.21
	1250 KL capacity	Litre	10.34
	1500 KL capacity	Litre	9.68
	1750 KL capacity	Litre	9.16
	2000 KL capacity	Litre	8.72
	Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-III & STAGING 18 M	· · · · · ·	
	100 KL capacity	Litre	29.87
	150KL capacity	Litre	23.26
	200KL capacity	Litre	20.62
	250KL capacity	Litre	19.04
	300KL capacity	Litre	20.09
	400KL capacity	Litre	16.97
	500KL capacity	Litre	16.48
	600 KL capacity	Litre	14.77
	700 KL capacity	Litre	14.00
		Litre	13.37
	800 RE capacity	Litre	12.82
	900 KL capacity	Litre	12.37
	1000 KL capacity	Litre	11.44
	1250 KL capacity	Litre	10.74
		Litre	10.18
	1750 KL capacity	Litre	9.72
コンちりんし	2000 KL capacity	Liue	1

**RCC** Reservoirs

Sr. No.	Description	Unit	Amendeo Rate (Rs.
	.00 KL capacity	Litre	32.58
	50KL capacity	Litre	25.78
	OOKL capacity	Litre	19.74
	250KL capacity	Litre	22.45
	SOOKL capacity	Litre	22.02
	lookL capacity	Litre	16.98
	i00KL capacity	Litre	17.64
	00 KL capacity	Litre	15.60
	700 KL capacity	Litre	14.74
	300 KL capacity	Litre	14.02
	000 KL capacity	Litre	13.42
			13.42
	1000 KL capacity	Litre	
	250 KL capacity	Litre	11.88
	500 KL capacity	Litre	11.12
	L750 KL capacity	Litre	10.49
	2000 KL capacity	Litre	10.00
· · · · · · · · · · · · · · · · · · ·	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-II & STAGING 18 M		
	LOO KL capacity	Litre	25.14
	L50KL capacity	Litre	19.69
	200KL capacity	Litre	17.47
	250KL capacity	Litre	16.20
	300KL capacity	Litre	16.04
	400KL capacity	Litre	14.23
3.2.7.7 5	500KL capacity	Litre	13.19
3.2.7.8	600 KL capacity	Litre	12.37
	700 KL capacity	Litre	11.67
3.2.7.10	300 KL capacity	Litre	11.12
	900 KL capacity	Litre	10.63
	1000 KL capacity	Litre	10.23
3.2.7.13	1250 KL capacity	Litre	9.42
3.2.7.14	1500 KL capacity	Litre	8.80
3.2.7.15	1750 KL capacity	Litre	8.31
3.2.7.16	2000 KL capacity	Litre	7.91
3.2.8 F	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-III & STAGING 18 M		
3.2.8.1	100 KL capacity	Litre	25.98
3.2.8.2	150KL capacity	Litre	20.53
3.2.8.3	200KL capacity	Litre	18.08
	250KL capacity	Litre	17.14
3.2.8.5	300KL capacity	Litre	16.65
	400KL capacity	Litre	14.92
3.2.8.7	500KL capacity	Litre	13:82
	600 KL capacity	Litre	12.90
	700 KL capacity	Litre	12:19
	800 KL capacity	Litre	11.61
	900 KL capacity	Litre	11.13
	1000 KL capacity	Litre	10.70
	1250 KL capacity	Litre	9.87
	1500 KL capacity	Litre	9.23
	1750 KL capacity	Litre	8.72
	2000 KL capacity	Litre	8.31
	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-IV & STAGING 18 M		1.1
ا [ حت رست و حت			26.37

RCC Reservoirs

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Sr. No.	Description	Unit	Amende Rate (Rs
3.2.9.2	150KL capacity	Litre	20.53
3.2.9.3	200KL capacity	Litre	16.39
3.2.9.4	250KL capacity	Litre	17.79
3.2.9.5	300KL capacity	Litre	17.10
3.2.9.6	400KL capacity	Litre	14.97
3.2.9.7	500KL capacity	Litre	13.79
3.2.9.8	600 KL capacity	Litre	13.01
3.2.9.9	700 KL capacity	Litre	12.31
	800 KL capacity	Litre	11.73
	900 KL capacity	Litre	
	1000 KL capacity		11.25
		Litre	10.83
	1250 KL capacity	Litre	10.00
	1500 KL capacity	Litre	9.36
	1750 KL capacity	Litre	8.85
	2000 KL capacity	Litre	8.44
3.2.10	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-II & STAGING 20 M		
	100 KL capacity	Litre	33.80
.2.10.2	150KL capacity	Litre	26.52
	200KL capacity	Litre	22.89
1.2.10.4	250KL capacity	Litre	21.98
.2.10.5	300KL capacity	Litre	22.74
.2.10.6	400KL capacity	Litre	20.57
.2.10.7	500KL capacity	Litre	19.39
.2.10.8	600 KL capacity	Litre	17.57
.2.10.9	700 KL capacity	Litre	16.75
2.10.10	800 KL capacity	Litre	16.07
	900 KL capacity	Litre	15.49
	1000 KL capacity	Litre	14.99
	1250 KL capacity	Litre	13.98
	1500 KL capacity	Litre	13.21
	1750 KL capacity	Litre	12.59
	2000 KL capacity	Litre	12.07
	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-III & STAGING 20 M	Later e	
	100 KL capacity	Litre	34.04
	150KL capacity	Litre	27.10
	200KL capacity	Litre	23.36
	250KL capacity	Litre	22.95
	300KL capacity	Litre	23.54
	400KL capacity	Litre	21.30
	500KL capacity	Litre	20.05
	600 KL capacity	Litre	17.82
	700 KL capacity	Litre	17.04
	800 KL capacity	Litre	16.39
	900 KL capacity	Litre	15.85
<u> </u>	1000 KL capacity	Litre	15.36
2,11.13	1250 KL capacity	Litre	14.40
.2.11.14	1500 KL capacity	Litre	13.65
2.11.15	1750 KL capacity	Litre	13.06
2.11.16	2000 KL capacity	Litre	12.56
	Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-IV & STAGING 20 M		
	100 KL capacity	Litre	38.33
	150KL capacity	Litre	29.33

		<u> </u>	Amended
Sr. No.	Description	Unit	Rate (Rs.)
3.2.12.3 2		Litre	25.04
+	50KL capacity	Litre	24.17
	00KL capacity	Litre	25.15
<b> </b>	00KL capacity	Litre	22.60
	00KL capacity	Litre	20.82
	00 KL capacity	Litre	18.95
	00 KL capacity	Litre	17.98
	00 KL capacity	Litre	17.17
	00 KL capacity	Litre	16.51
	000 KL capacity	Litre	15.92
J	250 KL capacity	Litre	14.77
j	500 KL capacity	Litre	13.88
}	750 KL capacity	Litre	13.00
			4
h	000 KL capacity	Litre	12.58
	ates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 20 M		
	00 KL capacity	Litre	30.57
	50KL capacity	Litre	23.57
	OOKL capacity	Litre	20.56
	50KL capacity	Litre	19.46
	OOKL capacity	Litre	19.35
H	OOKL capacity	Litre	17.23
	OOKL capacity	Litre	1.5.76
	00 KL capacity	Litre	14.50
<b> </b>	00 KL capacity	Litre	13.61
L	00 KL capacity	Litre	12.87
I	00 KL capacity	Litre	12.26
	000 KL capacity	Litre	11.75
	250 KL capacity	Litre	10.71
F	500 KL capacity	<u> </u>	9.94
	750 KL capacity	Litre	9.32
1	000 KL capacity	Litre	8.83
	tates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-III & STAGING 20 M		
	00 KL capacity	Litre	31.78
	50KL capacity	Litre	24.50
3.2.14.3 2	OOKL capacity	Litre	21.61
3.2.14.4 2	50KL capacity	Litre	21.17
3.2.14.5 3	OOKL capacity	Litre	21.07
3.2.14.6 4	OOKL capacity	Litre	18.84
3.2.14.7 5	OOKL capacity	Litre	17.30
3.2.14.8 6	00 KL capacity	Litre	15.15
3.2.14.9 7	700 KL capacity	Litre	14.35
3.2.14.10 8	300 KL capacity	Litre	13.53
3.2.14.11 9	100 KL capacity	Litre	12.81
3.2.14.12 1	.000 KL capacity	Litre	12.35
	.250 KL capacity	Litre	11.41
3.2.14.14 1	500 KL capacity	Litre	10.70
· · · · · · · · · · · · · · · · · · ·	.750 KL capacity	Litre	10.15
++	1000 KL capacity	Litre	9.69
	tates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-IV & STAGING 20 M		
	.00 KL capacity	Litre	34.27
3.2.15.1 1			
(	50KL capacity	Litre	27.30

RCC Reservoirs

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Sr. No.	Description	Unit	Amende Rate (Rs.
3.2.15.4 2	50KL capacity	Litre	23.75
3.2.15.5 3	OOKL capacity	Litre	23.24
3.2.15.6 4	OOKL capacity	Litre	20.33
3.2.15.7 5	OOKL capacity	Litre	18.64
	00 KL capacity	Litre	15.95
	00 KL capacity	Litre	15.12
	00 KL capacity	Litre	14.43
	00 KL capacity	Litre	13.87
	000 KL capacity	Litre	13.37
	250 KL capacity	Litre	12.38
	500 KL capacity	Litre	11.61
	750 KL capacity		· · · · · · · · · · · · · · · · · · ·
		Litre	11.01
	000 KL capacity	Litre	10.51
	ates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-II & STAGING 20 M		
	00 KL capacity	Litre	27.66
	50KL capacity	Litre	21.48
3.2.16.3 2	OOKL capacity	Litre	18.65
3.2.16.4 2	50KL capacity	Litre	17.32
3.2.16.5 3	OOKL capacity	Litre	16.98
3.2.16.6 4	OOKL capacity	Litre	14.91
3.2.16.7 5	OOKL capacity	Litre	13.82
3.2.16.8 6	00 KL capacity	Litre	12.95
	00 KL capacity	Litre	12.17
	100 KL capacity	Litre	11,54
	00 KL capacity	Litre	10.99
	.000 KL capacity	Litre	10.55
	.250 KL capacity	Litre	9.64
	500 KL capacity	Litre	8.96
	750 KL capacity	Litre	8.42
	2000 KL capacity	Litre	7.98
	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-III & STAGING 20 M		7.50
		Litre	27.81
	00 KL capacity		
	50KL capacity	Litre	21.79
	200KL capacity	Litre	19.21
	250KL capacity	Litre	18.22
	300KL capacity	Litre	17.66
3.2.17.6 4	IOOKL capacity	Litre	15.55
3.2.17.7 5	iOOKL capacity	Litre	14.43
3.2.17.8 E	500 KL capacity	Litre	13.83
3.2.17.9 7	700 KL capacity	Litre	13.06
3.2.17.10	300 KL capacity	Litre	12.41
3.2.17.11 9	000 KL capacity	Litre	11.87
	LOOO KL capacity	Litre	11.41
	1250 KL capacity	Litre	10.49
	L500 KL capacity	Litre	9.80
	1750 KL capacity	Litre	9,25
	2000 KL capacity	Litre	8.80
	Rates for RCC OHSR,SBC 18 T/sqm, SEISMIC ZONE-IV & STAGING 20 M		
· · · · · · · · · · · · · · · · · · ·		Litre	27.89
	LOO KL capacity	Litre	21.52
	L50KL capacity	Litre	17.24
	200KL capacity		
32184 2	250KL capacity	Litre	18.68

Amendment 01 PHED BSR 2022

RCC Reservoirs

Sr. No. Description	Unit	Amended Rate (Rs.)
3.2.18.5 300KL capacity	Litre	18.03
3.2.18.6 400KL capacity	Litre	15.71
3.2.18.7 500KL capacity	Litre	14,44
3.2.18.8 600 KL capacity	Litre	13.89
3.2.18.9 700 KL capacity	Litre	13.14
3.2.18.10 800 KL capacity	Litre	12.53
3.2.18.11 900 KL capacity	Litre	11.99
3.2.18.12 1000 KL capacity	Litre	11.55
3.2.18.13 1250 KL capacity	Litre	10.65
3.2.18.14 1500 KL capacity	Litre	9.98
3.2.18.15 1750 KL capacity	Litre	9.44
3.2.18.16 2000 KL capacity	Litre	9.00
3.2.19 Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-II & STAGING 22 M		
3.2.19.1 100 KL capacity	Litre	35,91
3.2.19.2 150KL capacity	Litre	27.50
3.2.19.3 200KL capacity	Litre	23.87
3.2.19.5 250KL capacity	Litre	23.27
3.2.19.4 250KL Capacity	Litre	23.23
3.2.19.5 SOURE capacity	Litre	23.33
3.2.19.6 400KL capacity 3.2.19.7 500KL capacity	Litre	19.93
3.2.19.7 SUCK Capacity 3.2.19.8 600 KL capacity	Litre	18.05
3.2.19.9 700 KL capacity	Litre	17.15
3.2.19.30 KL capacity	Litre	16.41
3.2.19.10 800 KL capacity	Litre	15.78
3.2.19.11 500 KL capacity	Litre	15.25
3.2.19.13 1250 KL capacity	Litre	14.16
3.2.19.13 1250 KL capacity 3.2.19.14 1500 KL capacity	Litre	13.33
3.2.19.14 1300 KL capacity 3.2.19.15 1750 KL capacity	Litre	12.66
3.2.19.16 2000 KL capacity	Litre	12.12
3.2.20 Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-III & STAGING 22 M		
3.2.20.1 100 KL capacity	Litre	36.12
3.2.20.2 150KL capacity	Litre	28.04
3.2.20.3 200KL capacity	Litre	24.37
3.2.20.3 200KL capacity	Litre	23.77
	Litre	24.16
3.2.20.5 300KL capacity	Litre	21.78
3.2.20.6 400KL capacity	Litre	20.60
3.2.20.7 500KL capacity	Litre	18.49
3.2.20.8 600 KL capacity	Litre	17.61
32.20.3 700 Kt capacity	Litre	16.87
3.2.20,10 800 KL capacity	Litre	16.26
3.2.20.11 900 KL capacity	Litre	15.73
3.2.20.12 1000 KL capacity	Litre	14.64
3.2.20.13 1250 KL capacity	Litre	13.82
3.2.20.14 1500 KL capacity	Litre	13.17
3.2.20.15 1750 KL capacity	Litre	12.62
3.2.20.16 2000 KL capacity 3.2.21 Rates for RCC OHSR,SBC 7 T/sqm, SEISMIC ZONE-IV & STAGING 22 M	- Cau C	
	Litre	39.30
3.2.21.1 100 KL capacity	Litre	30.10
		25.45
3.2.21.3 ZOUKL CAPACITY	Litre	24.45
3.2.21.4 250KL capacity	Litre	25.57
3.2.21.5 300KL capacity		<u> </u>

**RCC Reservoirs** 

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		Amended
Sr. No.	Unit	Rate (Rs.)
3.2.21.6 400KL capacity	Litre	22.87
3.2.21.7 500KL capacity	Litre	21.01
3.2.21.8 600 KL capacity	Litre	19.26
3.2.21.9 700 KL capacity	Litre	18.26
3.2.21.10 800 KL capacity	Litre	17.43
3.2.21.11 900 KL capacity	Litre	16.73
3.2.21.12 1000 KL capacity	Litre	16.12
3.2.21.13 1250 KL capacity	Litre	14.91
3.2.21.14 1500 KL capacity	Litre	13.99
3.2.21.15 1750 KL capacity	Litre	13.25
3.2.21.16 2000 KL capacity	Litre	12.66
3.2.22 Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 22 M	Litte	
3.2.22.1 100 KL capacity	Litre	33.12
3.2.22.2 150KL capacity	Litre	24.87
3.2.22.3 200KL capacity	Litre	21.90
3.2.22.4 250KL capacity	Litre	
3.2.22.5 300KL capacity	Litre	20.06
3.2.22.6 400KL capacity	Litre	17.73 16.19
3.2.22.7 500KL capacity	Litre	
3.2.22.8 600 KL capacity	Litre	14.56
3.2.22.9 700 KL capacity	Litre	13.66
3.2.22.10 800 KL capacity	Litre	12.94
3.2,22.11 900 KL capacity	Litre	12.33
3.2.22.12 1000 KL capacity	Litre	11.81
3.2.22.13 1250 KL capacity	Litre	10.77
3.2.22.14 1500 KL capacity	Litre Litre	9.38
3.2.22.15 1750 KL capacity	Litre	8.88
3.2.22.16 2000 KL capacity 3.2.23 Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-III & STAGING 22 M	LICE	0.00
	Litre	33.68
3.2.23.1 100 KL capacity	Litre	25.57
3.2.23.2 150KL capacity	Litre	22.42
3.2.23.3 200KL capacity	Litre	21.80
3.2.23.4 ZOURE Capacity	Litre	21.80
3.2.23.5 300KL capacity	Litre	19.23
3.2.23.6 400KL capacity	Litre	17.66
3.2.23.7 500KL capacity	Litre	16.07
3.2.23.8 600 KL capacity		15.10
3.2.23.9 700 KL capacity	Litre Litre	15.10
3.2.23.10 800 KL capacity	Litre	13.69
3.2.23.11 900 KL capacity	Litre	13.18
3.2.23.12 1000 KL capacity	Litre	12.15
3.2.23.13 1250 KL capacity	Litre	11.37
3.2.23.14 1500 KL capacity	Litre	10.75
3.2.23.15 1750 KL capacity	Litre	10.73
3.2.23.16 2000 KL capacity		
3.2.24 Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-IV & STAGING 22 M	Litre	36.39
3.2.24.1 100 KL capacity	Litre	27.92
3.2.24.2 150KL capacity	Litre	21.13
3.2.24.3 200KL'capacity	Litre	24.44
3.2.24.4 250KL capacity	Litre	23.88
3.2.24.5 300KL capacity	Litre	20.71
3.2.24.6 400KL capacity		

Amendment 01 PHED BSR 2022

RCC Reservoirs

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Sr. No.	Unit	Amende Rate (Rs.
3.2.24.7 500KL capacity	/ Litre	18.99
3.2.24.8 600 KL capacit		17.70
3.2.24.9 700 KL capacit		16.66
3.2.24.10 800 KL capacit		15.89
3.2.24.11 900 KL capacit		15.25
3.2.24.12 1000 KL capac		14.69
3.2.24.13 1250 KL capac		13.58
3.2.24.14 1500 KL capac		12.74
3.2.24.14 1300 KL capac 3.2.24.15 1750 KL capac		12.06
		11.52
3.2.24.16 2000 KL capac		11.52
	OHSR,SBC 18 T/sqm, SEISMIC ZONE-II & STAGING 22 M	00 57
3.2.25.1 100 KL capacit		29.57
3.2.25.2 150KL capacit		22.92
3.2.25.3 200KL capacit		19.74
3.2.25.4 250KL capacit		18.66
3.2.25.5 300KL capacit		17.74
3.2.25.6 400KL capacit		15.52
3.2.25.7 500KL capacit		14.29
3.2.25.8 600 KL capaci		13.06
3.2.25.9 700 KL capaci		12.23
3.2.25.10 800 KL capaci	y Litre	11.55
3.2.25.11 900 KL capaci	y Litre	10.99
3.2.25.12 1000 KL capac	ity	10.49
3.2.25.13 1250 KL capac	ity	9.55
3.2.25.14 1500 KL capad	ity	8.83
3.2.25.15 1750 KL capad	ity	8.26
3.2.25.16 2000 KL capad	ity Litre	7.80
3.2.26 Rates for RCC	OHSR,SBC 18 T/sqm, SEISMIC ZONE-III & STAGING 22 M	
3.2.26.1 100 KL capaci	Litre	30.16
3.2.26.2 150KL capacit	y Litre	22.98
3.2.26.3 200KL capacit	y Litre	20,02
3.2.26.4 250KL capacit		19.11
3.2.26.5 300KL capacit		18.52
3.2.26.6 400KL capacit		16.19
3.2.26.7 500KL capacit		14.93
3.2.26.8 600 KL capaci		13.59
3.2.26.9 700 KL capaci		12.76
3.2.26.10 800 KL capaci	- 7	12.08
3.2.26.11 900 KL capaci		11.53
3.2.26.12 1000 KL capacitation and the second secon		11.03
3.2.26.13 1250 KL capa		10.08
	dey	9.36
3.2.26.14 1500 KL capa 3.2.26.15 1750 KL capa		8.79
	, i cy	8.32
3.2.26.16 2000 KL capa 3.2.27 Rates for RCC	OHSR,SBC 18 T/sqm, SEISMIC ZONE-IV & STAGING 22 M	
3.2.27.1 100 KL capac		29.42
3.2.27.2 150KL capaci		22.66
3.2.27.3 200KL capaci		17.87
	Y	19.25
3.2.27.4 250KL capaci		18.71
3.2.27.5 300KL capaci	· · · · · · · · · · · · · · · · · · ·	16.15
3.2.27.6 400KL capaci	Y	14.86
3.2.27.7 500KL capaci	lu e	

RCC Reservoirs

ir. No.	Description	Unit	Amend Rate (R
	600 KL capacity	Litre	13.71
	700 KL capacity	Litre	12.93
	800 KL capacity	Litre	12.27
	900 KL capacity	Litre	11.73
	1000 KL capacity	Litre	11.27
2.27.13	1250 KL capacity	Litre	10.3
2.27.14	1500 KL capacity	Litre	9.64
2.27.15	1750 KL capacity	Litre	9.09
.27.16	2000 KL capacity	Litre	8.63
.2.28	For staging above 22 Mtr ( only in exceptional condition where hydraulics not permit) add 2% per Mtr above 22 Mtr.	·	
3.3	Construction of RCC (Flat slab type) Clear Water Reservoir of following capacity as per the	· ·	
•••	Scope of work and Technical specification, consisting of the following main activities: -	÷.	
	a) Topographic survey, preparation of site contour plan, conducting SBC test and its approval from department before construction. Submission and approval of concrete mix		
	design and water quality test report for water to be used in construction.		
	<ul><li>b) Excavation in all types of soil, PCC below foundation &amp; all RCC Work including all labour</li></ul>		·
	and material charges including providing and fixing of accessories such as SS ladder, SS	a a c	2
	manhole frame and covers, water level indicator (float type), SS ventilator with SS screen,		
	float valve, puddle collars, G.I. pipe railing around walk way, Top Dome/Slab, Staircase.	4 A.	
	c) CWR shall be provided with adequate plinth protection all around the structure in a width		
	starting from edge of structure at GL and extending at least up to 1.0m beyond the vertical		
	wall of CWR. The plinth protection shall consist of 150mm thick PCC in M-15 concrete over	1 A A	
· .	150mm thick compacted soil fill.		
	d) Providing and applying two coats of food grade epoxy paint on the inside surface of the		
	roof slab, and 600 mm height of the vertical wall.	· · ·	
	e) Successful hýdro test and water tightness test as per I.S. code.	2	
	f) Providing and applying three coats of anti-carbonation paint on the roof Slab.		
	g) Providing and applying three coats of cement-based paint on the remaining external	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
	surface area of the structure.		
 	Surface area of the Structure.		
	b) Brouiding and fiving CS 204 contilator CS 204 markets former and source and SS 204 ladder	· · ·	
	h) Providing and fixing SS-304 ventilator, SS 304 manhole frame and cover and SS 304 ladder		· · .
	from roof slab to bottom Slab, inside container. Providing and fixing water level indicator		
	(Float type).	· ·	
	i) Providing and fixing MS ladder from ground to top slab.		
1	j) All MS parts to be painted with two coats of the enamelled paint over the primer coat of		
	red oxide.		
	k) Providing and fixing of 150mm wide water bar for the construction joints in the container.	· .	
	I) Providing and fixing CI/DI puddle collars the vertical wall for connecting inlet, outlet,		
· .	overflow and washout pipes of the reservoir.		
	m) Inlet, outlet, overflow, washout pipes and valves are not included in this work,		
	provision for the same shall be taken separately.		
			· .
	Rates for RCC Partially Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-2,3 & 4		
	50 KL capacity	Litre	8.80
3.1.2	75 KL capacity	Litre	7.99
3.1.3	100 KL capacity	Litre	7.88
3.1.4	150KL capacity	Litre	. 7.07
3.1.5	200KL capacity	Litre	6.55
3.1.6	250KL capacity	Litre	6.29
3.1.7	300KL capacity	Litre	6.11

r. No.	Description	Unit	Amende Rate (Rs
3.3.2	Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-2,3 & 4		
.3.2.1	50 KL capacity	Litre	8.86
.3.2.2	75 KL capacity	Litre	8.05
.3.2.3	100 KL capacity	Litre	7.89
.3.2.4	150KL capacity	Litre	7.00
.3.2.5	200KL capacity	Litre	6.56
.3.2.6	250KL capacity	Litre	6.21
.3.2.7	300KL capacity	Litre	6.18
3.4	Construction of <b>RCC (Dome type) Clear Water Reservoir</b> of following capacity as per Scope of work and Technical specification, consisting of the following main activities: -	Liuc	
	<ul> <li>a) Topographic survey, preparation of site contour plan, conducting SBC test and its approval from department before construction. Submission and approval of concrete mix design and water quality test report for water to be used in construction.</li> <li>b) Excavation in all types of soil, PCC below foundation &amp; all RCC Work including all labour</li> </ul>		
	and material charges including providing and fixing of accessories such as SS ladder, SS manhole frame and covers, water level indicator (float type), SS ventilator with SS screen, float valve, puddle collars, G.I. pipe railing around walk way, Top Dome/Slab, Staircase. c) CWR shall be provided with adequate plinth protection all around the structure in a width starting from edge of structure at GL and extending at least up to 1.0m beyond the vertical		
· ·	wall of CWR. The plinth protection shall consist of 150mm thick PCC in M-15 concrete over 150mm thick compacted soil fill. d) Providing and applying two coats of food grade epoxy paint on the inside surface of the roof slab, and 600 mm height of the vertical wall. e) Successful hydro test and water tightness test as per I.S. code.		
	<ul> <li>f) Providing and applying three coats of anti-carbonation paint on the roof Slab.</li> <li>g) Providing and applying three coats of cement-based paint on the remaining external surface area of the structure.</li> </ul>		· · ·
	<ul> <li>h) Providing and fixing SS-304 ventilator, SS 304 manhole frame and cover and SS 304 ladder from roof slab to bottom Slab, inside container. Providing and fixing water level indicator (Float type).</li> <li>i) Providing and fixing MS ladder from ground to top slab.</li> </ul>		· · · · · · · · · · · · · · · · · · ·
•	j) All MS parts to be painted with two coats of the enamelled paint over the primer coat of red oxide.		
	<ul> <li>k) Providing and fixing of 150mm wide water bar for the construction joints in the container.</li> <li>l) Providing and fixing CI/DI puddle collars the vertical wall for connecting inlet, outlet,</li> </ul>	· .	
	overflow and washout pipes of the reservoir. m) Inlet, outlet, overflow, washout pipes and valves are not included in this work, provision for the same shall be taken separately.		
3.4.1	Rates for RCC Partially Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE2,3 & 4		
.4.1.1	400 KL capacity	Litre	6.67
3.4.2	Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-2,3 & 4		
.4.2.1	400 KL capacity	Litre	6.44
3.4.3	Rates for RCC Partially Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-2 & 3.		
.4.3.1	500 KL capacity	Litre	5.67
.4.3.2	600 KL capacity	Litre .	5.40
.4.3.3	700 KL capacity	Litre	5.36
.4.3.4	800 KL capacity	Litre	5.33

ir. No.	Description	Unit	Amende Rate (Re
3.4.3.5	900 KL capacity	Litre	5.23
3.4.3.6	1000 KL capacity	Litre	5.15
3.4.4	Rates for RCC Partially Underground type clear water reservoir SBC 12.5 T/sqm, SEISMIC ZONE-2 & 3.		
3.4.4.1	500 KL capacity	Litre	5.52
	600 KL capacity	Litre	5.22
	700 KL capacity	Litre	5.15
	800 KL capacity	Litre	5.11
	900 KL capacity	Litre	4.98
	1000 KL capacity	Litre	4.88
3.4.5	Rates for RCC Partially Underground type clear water reservoir SBC 7 T/sqm, SEISMIC	uue	4.00
	ZONE-4		
3.4.5.1	500 KL capacity	Litre	6.30
3.4.5.2	600 KL capacity	Litre	6.06
3.4.5.3	700 KL capacity	Litre	5.99
3.4.5.4	800 KL capacity	Litre	5.94
3.4.5.5	900 KL capacity	Litre	5.73
3.4.5.6	1000 KL capacity	Litre	5.57
3.4.6	Rates for RCC Partially Underground type clear water reservoir SBC 12.5 T/sqm, SEISMIC		1.5.57
	ZONE-4	· · · ·	
3.4.6.1	500 KL capacity	Litre	5.65
3.4.6.2	600 KL capacity	Litre	5.46
3.4.6.3	700 KL capacity	Litre	5.36
3.4.6.4	800 KL capacity	Litre	5.29
3.4.6.5	900 KL capacity	Litre	5.13
3.4.6.6	1000 KL capacity	Litre	5.00
3.4.7	Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-2 & 3		
3.4.7.1	500 KL capacity	Litre	5.71
3.4.7.2	600 KL capacity	Litre	5.63
3.4.7.3	700 KL capacity	Litre	5.54
3.4.7.4	800 KL capacity	Litre	5.48
3.4.7.5	900 KL capacity	Litre	5.36
3.4.7.6	1000 KL capacity	Litre	5.27
3.4.8	Rates for RCC Underground type clear water reservoir SBC 12.5 T/sqm, SEISMIC ZONE- 2 &		
3.4.8.1	5 500 KL capacity	Litre	5.58
	600 KL capacity	Litre	5.48
3.4.8.2		Litre	5.42
3.4.8.2 3.4.8.3	700 KL capacity		5.37
3.4.8.3	800 KL capacity	Litre	
3.4.8.3 3.4.8.4	800 KL capacity	Litre Litre	5.25
3.4.8.3 3.4.8.4 3.4.8.5			
3.4.8.3 3.4.8.4 3.4.8.5	800 KL capacity 900 KL capacity	Litre	
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 3.4.8.6 <b>3.4.9</b>	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4	Litre Litre	5.14
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4 500 KL capacity	Litre Litre Litre	5.14 5.81
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4 500 KL capacity 600 KL capacity	Litre Litre Litre Litre	5.14 5.81 5.77
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4 500 KL capacity 600 KL capacity 700 KL capacity	Litre Litre Litre Litre Litre Litre	5.25 5.14 5.81 5.77 5.65 5.56
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3 3.4.9.4	800 KL capacity         900 KL capacity         1000 KL capacity         Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4         500 KL capacity         600 KL capacity         700 KL capacity         800 KL capacity         800 KL capacity	Litre Litre Litre Litre Litre Litre Litre	5.14 5.81 5.77 5.65 5.56
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3 3.4.9.3 3.4.9.4 3.4.9.5	800 KL capacity         900 KL capacity         1000 KL capacity <b>Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4</b> 500 KL capacity         600 KL capacity         700 KL capacity         800 KL capacity         900 KL capacity         900 KL capacity	Litre Litre Litre Litre Litre Litre Litre Litre	5.14 5.81 5.77 5.65 5.56 5.45
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3	800 KL capacity         900 KL capacity         1000 KL capacity         Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4         500 KL capacity         600 KL capacity         700 KL capacity         800 KL capacity         800 KL capacity	Litre Litre Litre Litre Litre Litre Litre	5.14 5.81 5.77 5.65 5.56 5.45
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3 3.4.9.4 3.4.9.5 3.4.9.6 <b>3.4.10</b>	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4 500 KL capacity 600 KL capacity 700 KL capacity 800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 12.5 T/sqm, SEISMIC ZONE-4	Litre Litre Litre Litre Litre Litre Litre Litre	5.14 5.81 5.77 5.65 5.56 5.45 5.35
3.4.8.3 3.4.8.4 3.4.8.5 3.4.8.6 <b>3.4.9</b> 3.4.9.1 3.4.9.2 3.4.9.3 3.4.9.4 3.4.9.5 3.4.9.6 <b>3.4.9.6</b> <b>3.4.10</b>	800 KL capacity 900 KL capacity 1000 KL capacity Rates for RCC Underground type clear water reservoir SBC 7 T/sqm, SEISMIC ZONE-4 500 KL capacity 600 KL capacity 700 KL capacity 800 KL capacity 900 KL capacity 1000 KL capacity	Litre Litre Litre Litre Litre Litre Litre Litre	5.14 5.81 5.77

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Sr. No.	Description	Unit	Amende Rate (Rs
3.4.10.3	700 KL capacity	Litre	5.65
	800 KL capacity	Litre	5.56
	900 KL capacity	Litre	5.45
	1000 KL capacity	Litre	5.35
3.5	Construction of RCC Dome type Ground Level Service Reservoir (GLSR) of following		
	capacity as per the Scope of work and Technical specifications, consisting of the following main activities: -	ан 1917 - 1917 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 -	
1	a) Topographic survey, preparation of site contour plan, conducting SBC test and its		
	approval from department before construction. Submission and approval of concrete mix		
	design and water quality test report for water to be used in construction.	1997 - 1997 -	
	b) Excavation in all types of soil, PCC below foundation & all RCC Work.	100	
	c) All the GLSR shall be provided with adequate plinth protection all around the structure in		n. An an
- 1 - L	a width starting from edge of structure at GL and extending at least up to 1.0m beyond the		÷
	vertical wall. The plinth protection shall consist of 150mm thick PCC in M-15 concrete over		- 
н. н. На пол	150mm thick compacted soil fill.		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	d) Providing and applying two coats of food grade epoxy paint on the inside surface of the	an an an Aragan Aragan	· · · ·
	roof slab, and 600 mm height of the vertical wall giving.		1
	e) Successful hydro test and water tightness test as per I.S. code.		
	f) Providing and applying three coats of anti-carbonation paint on the roof Slab.		
an an Ar	g) Providing and applying three coats of cement-based paint on the remaining external surface area of the structure.	*.	
	h) Providing and fixing SS-304 ventilator, SS 304 manhole frame and cover and SS 304 ladder	·	
	from top bottom Slab inside container. Providing and fixing water level indicator (Float		
	type).		
	i) Providing and fixing MS ladder from ground to top slab with safety cage.		e 1
	j) All MS parts to be painted with two coats of the enamelled paint over the primer coat of		
	red oxide.		
	k) Providing and fixing of 150mm wide water bar for the construction joints in the container.	a la companya da companya d	
	1) Providing and fixing CI/DI puddle collars the vertical wall for connecting inlet, outlet,		
	overflow and washout pipe of the reservoir.		
a tang	m) inlet, outlet, overflow, washout pipes and valves are not included in this work,		
	provision for the same shall be taken separately.	an an tha an tha	
3.5.1	Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-II & III and SBC18T/sqm		
3.5.1.1	50 KL capacity	Litre	11.02
3.5.1.2	100 KL capacity	Litre	8.28
3.5.1.3	150 KL capacity	Litre	6.95
	200 KL capacity	Litre	6.43
3.5.1.4			5.88
	250 KL capacity	Litre	
	300 KL capacity	Litre	· · · · · · · · · · · · · · · · · · ·
3.5.1.5		Litre Litre	5.40
3.5.1.5 3.5.1.6	300 KL capacity 400 KL capacity 500 KL capacity	Litre	5.40
3.5.1.5 3.5.1.6 3.5.1.7	300 KL capacity 400 KL capacity	Litre Litre	5.40
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8	300 KL capacity 400 KL capacity 500 KL capacity	Litre Litre Litre Litre	5.40 5.25 11.28
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b>	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm	Litre Litre Litre	5.40 5.25 11.28
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b> 3.5.2.1	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm 50 KL capacity	Litre Litre Litre Litre	5.40 5.25 11.28 8.42
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b> 3.5.2.1 3.5.2.2 3.5.2.3	300 KL capacity         400 KL capacity         500 KL capacity         Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm         50 KL capacity         100 KL capacity         150 KL capacity         150 KL capacity	Litre Litre Litre Litre Litre	5.40 5.25 11.28 8.42 7.07
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b> 3.5.2.1 3.5.2.2 3.5.2.3 3.5.2.3	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm 50 KL capacity 100 KL capacity 150 KL capacity 200 KL capacity	Litre Litre Litre Litre Litre Litre	5.40 5.25 11.28 8.42 7.07 6.46
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b> 3.5.2.1 3.5.2.2 3.5.2.3 3.5.2.4 3.5.2.5	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm 50 KL capacity 100 KL capacity 150 KL capacity 200 KL capacity 250 KL capacity	Litre Litre Litre Litre Litre Litre Litre	5.67 5.40 5.25 11.28 8.42 7.07 6.46 5.91 5.69
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2.1</b> 3.5.2.1 3.5.2.3 3.5.2.3 3.5.2.4 3.5.2.5 3.5.2.6	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm 50 KL capacity 100 KL capacity 150 KL capacity 200 KL capacity 250 KL capacity 300 KL capacity	Litre Litre Litre Litre Litre Litre Litre Litre	5.40 5.25 11.28 8.42 7.07 6.46 5.91 5.69
3.5.1.5 3.5.1.6 3.5.1.7 3.5.1.8 <b>3.5.2</b> 3.5.2.1 3.5.2.2 3.5.2.3 3.5.2.4 3.5.2.5	300 KL capacity 400 KL capacity 500 KL capacity Rates for RCC GROUND LEVEL SERVICE RESERVOIR SEISMIC ZONE-4 & SBC 18T/sqm 50 KL capacity 100 KL capacity 150 KL capacity 200 KL capacity 250 KL capacity	Litre Litre Litre Litre Litre Litre Litre Litre Litre	5.40 5.25 111.28 8.42 7.07 6.46 5.91

Sr. No.	Description	Unit	Amendeo Rate (Rs.
3.6	Providing and fixing double flanged ISI marked GI pipes medium duty (class B ) Steel tube as		
	per IS:1239 or amended up to date and zinc coating as per IS 4736 with GI fittings excluding		
	valves as vertical pipes for RCC Reservoirs including specials required such as bend, tee etc.		
	providing and fixing with MS clamps clamps at every 3 mtr, jointing materials such as nuts,	• • •	
ta e ja	bolt, rubber packing, hydraulic testing etc. complete in all respect up to and from valve		
	chamber as per direction of EIC, Technical Specification and Scope of work.		- -
3.6.1	50 mm	Mtr	665.00
3.6.2	65 mm	Mtr	853.00
3.6.3	80 mm	Mtr	906.00
3.6.4	100 mm	Mtr	1190.00
3.7	Providing and fixing double flanged ISI marked DI Class K-9 pipes as per IS:8329-2000		
	(amended up to date), as vertical pipes for RCC Reservoirs including specials required such		
14 14	as duck foot bend, bend, tee etc. providing and fixing clamps at every 3 mtr, jointing		1. A. A.
1997 - A.	materials such as nuts, bolt, rubber packing, hydraulic testing etc. complete in all respect up		1
	to and from valve chamber as per direction of EIC, Technical Specification and Scope of	,	1. A.
	work.		
3.7.1	100 mm	Mtr	2457.00
3.7.2	150 mm	Mtr	3527.00
3.7.3	200 mm	Mtr	4762.00
3.7.4	250 mm	Mtr	6430.00
3.7.5	300 mm	Mtr	8181.00
3.7.6	350 mm	Mtr	9912.00
3.7.7	400 mm	Mtr	12079.00
3.7.8	450 mm	Mtr	14315.00
3.7.9	500 mm	Mtr	16805.00
3.7.10	600 mm	Mtr	22245.00
3.7.11	700 mm	Mtr	28460.00
	Note: The rates for DI double flanged pipes shall be reduced 5%, if used other than OHSR	te de la ser	
			l'
	pipes.	•	

## Chapter 4

# Earth work, Road cutting, restoration & trenchless laying

S. No.	Description	Unit	Amended
			Rate (Rs.)
4.1	Earth work in excavation by mechanical means (Hydraulic Excavator )/ manual		
	means in trenches of required width and gradient for laying and jointing of pipe		
1.	line including excavation for sockets, and dressing of sides, ramming of		
*. 	bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then		
	returning the soil as required in layers not exceeding 20cm in depth including		204.00
	consolidating each deposited layer by ramming, watering etc. and disposal of		· ·
-	surplus excavated soil as directed within a lead of 50 Mtr. including required all		
	safety provisions etc.:	a service and the	· ·
	All kinds of soil		
4.2	Add extra for trenches for every additional lift over item no 4.1		
· · ·			1. dag
4.2.1	Above 1.5 mtr and up to 3.0 mtr.	Cum	20.00
4.2.2	Above 3.0 mtr and up to 4.5 mtr.	Cum	41.00
4.3	Earth work in excavation by mechanical means (Hydraulic Excavator )/ manual	·····	
· · · ·	means in trenches of required width and gradient for laying and jointing of pipe		vil. Line i
	line including excavation for sockets, and dressing of sides, ramming of		
	bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then		
	returning the soil as required in layers not exceeding 20cm in depth including		·
	consolidating each deposited layer by ramming, watering etc. and stacking		
	serviceable material for measurements and disposal of unserviceable material		i en suite en
· . ·	as directed, with in a lead of 50 Mtr. including all safety provisions required .:	an in the second	
4.3.1	Ordinary rock	an tanın aşa	
·· ····		Cum	<b>366</b> .00
4.3.2	Hard rock (requiring blasting)	Cum	<b>546</b> .00
4.3.3	Hard rock(blasting prohibited)	Cum	<b>930</b> .00
4.4	Add extra for trenches for every additional lift over item no 4.3		
4.4.1	Above 1.5 mtr and up to 3.0 mtr.	Cum	<b>37</b> .00
4.4.2	Above 3.0 mtr and up to 4.5 mtr.	Cum	<b>73</b> .00
4.5	Dismantling of cement concrete pavement for pipe line line and chambers by		
	mechanical means using pneumatic tools, cutting the peripheral edge by CC	(1) (1) (1)	
	cutter, breaking to pieces not exceeding 0.02 cum in volume and stock piling at		
	designated locations and disposal of dismantled materials up to a lead of 1000		
	meters. Measurement for dismantled trench to be made as per standard	Cum	<b>756.</b> 00
	trench width specified in tender document and no extra payment shall be	la productione de la composición de la Composición de la composición de la comp	y NG an an an Ag
	made be made for trench width more than specified, re-handling of		$f_{\rm e} = f_{\rm e} f_{\rm e}$
	material/earth to complete the tasks as per technical specification and scope	n san in star	
	of work.		
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Earth work, Road cutting, restoration trenchless laying

S. No.	Description	Unit	Amendeo Rate (Rs.)
4.6	Dismantling of flexible pavement for pipe line line and chambers by		
	mechanical means using pneumatic tools, breaking to pieces not exceeding		
· · ·	0.02 cum in volume and stock piling at designated locations and disposal of		r ra i
	dismantled materials up to a lead of 1000 meters. Measurement for		
	dismantled trench to be made as per standard trench width specified in tender		
	document and no extra payment shall be made be made for trench width more	in a statistica a	
	than specified, re-handling of material/earth to complete the tasks per		
	technical specification and scope of work.		
			<u> </u>
4.6.1	Bituminous courses	Cum	<b>416</b> .00
4.6.2	Granular courses	Cum	<b>296</b> .00
4.7	Providing and laying in position cement concrete M10 grade nominal mix 1:3:6	· · ·	
	(1 Cement : 3coarse sand : 6 graded stone aggregate 40 mm nominal size) in		
	base course complete including all material, labour, machinery, lighting,		
	guarding for road restoration work in trenches of pipe line and chamber work.		
	Measurement for CC work to be made as per standard trench width specified	Cum	4797.00
	in tender document and no extra payment shall be made be made for trench		
•	width more than specified, complete work as per technical specification and		
	scope of work.		
· .			<u> </u>
4.8	Providing and laying in position cement concrete in specified grade over		
14 A. A.	prepared base course complete including finishing, curing, all material, labour,	• • • • •	
	machinery, lighting, guarding for road restoration work in trenches of pipe line	1	· .
	and chamber work. Measurement for CC work to be made as per standard		2.1
	trench width specified in tender document and no extra payment shall be		
	made be made for trench width more than specified, complete work as per		
	technical specification and scope of work.		
4.8.1	M20 grade Nominal Mix		· · · · · · · · · · · · · · · · · · ·
	1: 1.5: 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal		6F07 44
:	size).	Cum	<b>6507</b> .00
		n en eester oor	
4.8.2	Plain cement concrete pavement of M-30 Grade	Cum	6874.00

Earth work, Road cutting, restoration trenchless laying

S. No.	Description	Unit	Amende
·			Rate (Rs.
4.9	Removing & Re-fixing of Precast concrete interlocking blocks for laying of pipe		
· .	line by manual method, stacking of serviceable & non serviceable material		
	separately, disposal of dismantled material lead up to 50 mtr. The C.C.		
	interlocking paving blocks be laid on average 25 mm thick bed of coarse sand		
	and the joints to be filled with fine sand. Laying procedure on compacted sub		
÷.,	base as defined. Complete job is to be executed as per the directions of		
	Engineer in charge. The rates to be inclusive of fixing of minimum 70 percent		
	reusable precast concrete interlocking, block and cost of required new precast		
•	concrete interlocking block against damaged, including all lead and lift as per		
	Technical specifications. (Interlocking block manufactured by fully		
	computerized automatic stationery hydraulic vibro pressed machine & full		
· .	computerized automatic batching plant of class A-1 as per BS:6717-2001.		
	Tensile splitting strength and breaking load as per BS: 6717-2001 Colour: Grey		
	cement natural colour. Variation in Dimension : Less than 1.6 mm Variation in		
	thickness: Less than 3.2 mm)		
4.9.1	60 mm thick.	Sqm.	283.00
4.9.2	80 mm thick.	Sam.	308.00
4.9.3	100 mm thick	Sam.	343.00
4.10	Horizontal directional drilling (by trenchless technology) of suitable dia hole		
	minimum 1.0 mtr below natural ground level in all type of soil under CC/BT		
	roads and pulling HDPE pipes of dia up to 110 mm, which are available in the		. <sup>1</sup> 10 - 1
	form of a coil including excavation, shoring/ strutting, preparation, maintain	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	the thrust and including, road dismantling, excavation and refilling of drive pit	•	at a sur e
	and exit pit, restoration of road cut as per technical specification and scope of		<b>298</b> .00
	work.		
	Excluding cost of pipe line.	1. F.	
	Note: Trenchless laying shall be done only for laying of pipe line (rising main)	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
· · · .	and road crossing of distribution pipe line under CC/BT roads.		

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Amendment 01 PHED BSR 2022 Earth work, Road cutting, restoration trenchless laying

S. No.	Description	Unit	Amendeo
		· · ·	Rate (Rs.)
4.11	Supply laying and pushing of MS casing pipe of specified thickness approved by		
	concerned department authority by trenchless method adopting any suitable		
	technology below ground at required depth under running traffic condition as		
	per Highway/ Railway standard including carrying out survey work at the job		
÷ .	site for determining underground cable trenches like telephone, cable, water &		÷ *
	sanitary lines and resistivity test for finding the soil strata using necessary		· .
· .	equipments for completion of works, mobilizing of machineries and specialized		
	crew at the job site complete in all respect, including excavation of driven pit		
	and exit pit (up to 3 meter depth) with proper protection at these sites with		
· .			
	shoring sheets and ISMB. Providing MS cutting edges for front shield and		
1997 I. I.	constructing thrust bed at designated level. Necessary dewatering and		·
	providing concrete foundation at the base of the driven pit, PVC/Rubber saddle		· · · · ·
	as per the requirement of Highway/Railway authority, crane for handing of	(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	
	pipe and any other machinery, tools, and tackles required, construction of		
	temporary works as per design, drawing and method as per approved by		
	authority specification and the direction of the Engineer.		
· · · ·	Apply corrosion, resistant, protection on inside and outside of casing pipe as	е. — е Стала стала	
	per technical specification.		
4.11.1	300 mm Dia 8 mm thick casing pipe.	RMT	19088.00
4.11.1	400 mm Dia 8 mm thick casing pipe .	RMT	<b>2184</b> 8.00
4.11.2	500 mm Dia 8 mm thick casing pipe .	RMT	24583.00
4.11.4	600 mm Dia 10 mm thick casing pipe .	RMT	31582.00
4.11.5	700 mm Dia 10 mm thick casing pipe .	RMT	35002.00
4.12	Removing & Re-fixing of Bricks Kharbanja road by manual means for laying of		
4.12	pipe line, stacking of serviceable & unserviceable material separately, disposal		. * *
-	of dismantled material lead upto 50 mtr. The Bricks interlocking be laid on		
	average 12 mm thick bed of mud mortar and the joints to be filled with		4
	pointing in cement mortar 1:3. Laying procedure on compacted sub base as	* .	
	defined. Complete job is to be executed as per the direction of Engineer in		
	charge. The rates are inclusive of fixing of minimum 70 percent reusable Bricks		
	and cost of required new First class FPS bricks (min. 10.5 Mpa) in place of		na se galenne. A company
	damaged bricks, all lead and lift as per Technical Specifications and direction of		
e A A	Engineer in Charge.	•	
.12.1	Horizontal aligned Bricks	Sqm.	245.00
	Vertical aligned Bricks	Sqm.	272.00

Amendment 01 PHED BSR 2022 Earth work, Road cutting, restoration trenchless laying

## Chapter 5

P	um	1p	sei	ts

Sr. No.	Description	Unit	Amended Rate(Rs.)
5.1 Pr	roviding, installation, testing and commissioning of Centrifugal Monoblock		
	ump set conforming to IS 9079 , 2 pole motor operating at synchronised	1	ана аналагана Ал
	beed of 3000 RPM with requisite MOC impeller, priming funnel, cock,		
	uitable flanges at suction and delivery side. Pump shall have common shaft		
	pr pump and motor. Motor shall be suitable for working on 415 V $\pm$ 10%, 3		
	h, 50 Hz A.C. Supply. Motor shall be TEFC type and Pump set shall be		· ·
Pr	uitable for working at various discharge and head requirements as per		
		·	
	cope of work. Pump shall be erected on C.C. foundation / cross channels /		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	SJ frame block with suitable foundation bolts grouted in C.C. foundation		· · ·
	lock etc. complete in all respect as per specification, scope of work and		· · ·
	irection of Engineer in Charge of following power rating, suitable for		
p	rescribed duty conditions mentioned in TD.		
			· · · · · · · · · · · · · · · · · · ·
5.1.1 C	entrifugal Monoblock Pump set (Single Stage)		2000.00
	.2 KW (3.0 HP)	Each	36328.00
5.1.1.2 3	.7 KW (5.0 HP)	Each	46673.00
5.1.1.3 5	.5 KW (7.5 HP)	Each	59127.00
5.1.1.4 7	.5 KW (10 HP)	Each	72297.00
5.1.1.5 9	.3 KW (12.5 HP)	Each	84622.00
5.1.1.6 1	1.0 KW (15 HP)	Each	89101.00
5.1.1.7 1	5.0 KW (20.0 HP)	Each	120499.00
5.1.1.8 1	.8.5 KW (25.0 HP)	Each	150288.00
5.1.2 C	Centrifugal Monoblock Pump set (Double Stage)		
	3.7 KW (5.0 HP)	Each	55191.00
	5.5 KW (7.5 HP)	Each	67298.00
	7.5 KW (10.0 HP)	Each	80622.00
	9.3 KW (12.5 HP)	Each	89474.00
	11.0 KW (15.0 HP)	Each	98763.00
	15.0 KW (20.0 HP)	Each	129765.00
	Vacuum Pump set (Monoblock)		
5.2 F	Providing, installation, testing and commissioning of Mono block Vacuum		
	pump set with base plate including C.C. foundation / cross channels / RSJ		
f	frame and foundation bolts etc. complete in all respect as per specification,		
	scope of work and direction of Engineer in Charge.		
E 2 4 1	0.75 VIN (1 HP) cingle Ph	Each	32689.00
	0.75 KW (1 HP), single Ph 2.2 KW (3 HP), three Ph	Each	61230.00
	Vacuum Pump set (Coupled) Providing, installation, testing and commissioning of Vacuum pump set with		+ 12
5.3	Providing, Installation, testing and commissioning of vacuum pump set when horizontal foot mounted TEFC squirrel cage motor working on three phase		
	norizontal root mounted tere squitte lage motor working on three phase		
-	50 Hz, 415 Volts +/- 10% with base plate including cost of flexible couplings,		
	coupling guard etc. complete in all respect as per specification, scope of		
	work and direction of Engineer in Charge.		
		Each	131352.00
	3.7 KW (5.0 HP)	Each	162048.00
5.3.2	7.5 KW (10.0 HP)		

Pump sets

Sr. No.	Description	Unit	Amended Rate(Rs.)
5.4	Providing, installation, testing and commissioning of Submerged Centrifugal		
	Pump sets with motor 4 pole synchronised speed of 1500 rpm ( water		1. The second
	immersed, dry air filled, class "F" insulated TEWC motor integrally mounted		
	on volute casing pump sets for drinking water ) 3 phase, +/- 3%, 415 volt +/-		+
	10%, along with suitable foundation/ installation device and with 10 mtr		
-	cable, material of construction of impeller SS, casing (volute) CI, wearing ring	· 1	
	SS, etc. complete in all respect as per specification, scope of work and		
	direction of Engineer in Charge of following power rating, suitable for		
	prescribed duty conditions mentioned in TD.		•
5.4.1	15 KW	Each	265676.00
5.4.2	18.5 KW	Each	327667.00
5,4.3	22 KW	Each	389658.00
5.4.4	30 KW	Each	531352.00
5.4.5	37 KW	Each	640972.00
5.4.6	45 KW	Each	678575.00
	45 KW	Each	856737.00
5.4.7		Each	967432.00
5.4.8	75 KW	Each	1279396.00
5.4.9	90 KW	Each	1611098.00
5.4.10	110 KW	Each	1767041.00
	125 KW	Each	1863574.00
	132 KW	Each	
5.4.13	160 KW	Each	2145806.00
5.4.14	180 KW		2279702.00
	200 KW	Each	2735645.00
5.5	Providing, installation, testing and commissioning of submersible		
	monoblock pump set conforming to IS 8034 and 2 pole motor operating at		2. 173.71
1	synchronised speed of speed 3000 RPM, with water proof winding. Pump		
	shall be suitable for various delivery head and discharge with stainless steel		
	shaft. Motor suitable for working on 415 V $\pm$ 10%, 3 Ph, 50 Hz AC and with		
	water lubricated bearing to accept entire hydraulic thrust. Supply, with cable		
	guard, thrust carbon/fibre bearing to withstand entire hydraulic thrust. The		n na Ariana Ariana Ariana Ariana
	pump set shall be suitable for direct coupling, with suitable suction strainer.	·	
	Pump should have suitable discharge out let as per manufacturer's design.		
	Antithrust stream lined non return valve shall be provided with the pump		in i get er angi sa T
	and minimum 6 m submersible copper conductor cable in single / double		
	run and 2 pairs of suitable size erection clamp 10 mm thick shall be provided		
	with each pump etc. complete in all respect as per specification, scope of		
	work and direction of Engineer in Charge of following power rating, suitable		
1 - 1 			
1. 4.	for prescribed duty conditions mentioned in TD.		
с. н. С			
		· · · · ·	
5.5.	1 2.2 KW (3.0 HP)	Each	38474.00
	2 3.7 KW (5.0 HP)	Each	42763.00
	3 5.5 KW (7.5 HP)	Each	57552.00
55	4 7.5 KW (10 HP)	Each	64847.00
	Lar Lar tarty game 111 g .	<b>F</b> 1-	81830.00
5.5.4		Each	01000.00
5.5. 5.5.	5 9.3 KW (12.5 HP) 6 11.0 KW (15 HP)	Each	91512.00

Pump sets

Sr. No.	Description	Unit	Amended Rate(Rs.)
5.6	Providing, installation, testing and commissioning of submersible		,
	dewatering pump set conforming to relevant IS codes and as per scope of		
	work and Technical Specifications, with water proof winding. Pump shall be		
	suitable for various delivery head and discharge with stainless steel shaft,		
	impeller, pump and motor body. Motor suitable for working on 415 V $\pm$ 10%,		
	3 Ph, 50 Hz A.C. Supply, with cable guard. The pump set shall be suitable for		
	direct coupling, with suitable suction strainer etc. complete in all respect as		
	per specification, scope of work and direction of Engineer in Charge of		· · · · · ·
н. с. с. С.	following power rating, suitable for prescribed duty conditions mentioned		
	in TD.		
	0.75 KW (1.0 HP)	Each	43642.00
	1.5 KW (2.0 HP)	Each	48533.00
	2.2 KW (3.0 HP)	Each	85561.00
5.6.4	3.7 KW (5.0 HP )	Each	112273.00
5.7	Providing and fixing at site with necessary packing, Horizontal Centrifugal		
	Split Casting pumps with 4 pole induction motor operating at synchronised		
	speed of speed 1500 RPM as per IS 12615: 2011 or amended up to date , CI		
	casing and casing ring, SS 316 impeller, SS 410 Shaft and shaft sleeve,		
	coupling guard, common base plate, foundation bolts, Cement concrete		
	foundation etc. complete with all respect as per the specification and scope		·
	of work and direction of Engineer in Charge of following range of duty	1 1 A	
	conditions.	. 1	
	Note: Duty condition of required pump shall also be mentioned in BoQ.		
·			·
7.1	Discharge 20 to 30 LPS and head 20 to 30 M	Each	179864.00
7.2	Discharge 20 to 30 LPS and head 31 to 40 M	Each	261894.00
7.3	Discharge 20 to 30 LPS and head 41 to 50 M	Each	313504.00
7.4	Discharge 20 to 30 LPS and head 51 to 60 M	Each	364607.00
7.5	Discharge 20 to 30 LPS and head 61 to 70 M	Each	455000.00
7.6	Discharge 20 to 30 LPS and head 71 to 80 M	Each	455000.00
7.7	Discharge 20 to 30 LPS and head 81 to 90 M	Each	455000.00
7.8	Discharge 31 to 40 LPS and head 20 to 30 M	Each	261894.00
7.9	Discharge 31 t0 40 LPS and head 31 to 40 M	Each	313504.00
	Discharge 31 to 40 LPS and head 41 to 50 M	Each	364607.00
7.11	Discharge 31 to 40 LPS and head 51 to 60 M	Each	455000.00
7.12	Discharge 31 to 40 LPS and head 61 to 70 M	Each	536538.00
7.13	Discharge 21 to 40 LPS and head 71 to 90 M	Each	
7.14	Discharge 31 to 40 LPS and head 81 to 90 M		536538.00 635185.00
7.15	Discharge 41 to 50 LPS and head 20 to 30 M	Each	313504.00
7.16	Discharge 41 to 50 LPS and head 31 to 40 M	Each	
7.17	Discharge 41 to 50 LPS and head 41 to 50 M	Each	455000.00
7.18	Discharge 41 to 50 LPS and head 51 to 60 M	Each	455000.00
		Each	536538.00
7.19	Discharge 41 to 50 LPS and head 61 to 70 M	Each	635185.00
7 20	Discharge 41 to 50 LPS and head 71 to 80 M	Each	754723.00
7.21	Discharge 41 to 50 LPS and head 81 to 90 M	Each	754723.00
7.22	Discharge 51 to 60 LPS and head 20 to 30 M	Each	364607.00
7.23	Discharge 51 to 60 LPS and head 31 to 40 M	Each	455000.00
7.24	Discharge 51 to 60 LPS and head 41 to 50 M	Each	536538.00
7.25	Discharge 51 to 60 LPS and head 51 to 60 M	Each	635185.00
7.26	Discharge 51 to 60 LPS and head 61 to 70 M	Each	754723.00

Pump sets

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			· · · · · · · · · · · · · · · · · · ·
	Description	Unit	Amended
Sr. No.	Description		Rate(Rs.)
.7.27	Discharge 51 to 60 LPS and head 71 to 80 M	Each	927926.00
.7.28	Discharge 51 to 60 LPS and head 81 to 90 M	Each	927926.00
.7.29	Discharge 61 to 70 LPS and head 20 to 30 M	Each	364607.00
.7.30	Discharge 61 to 70 LPS and head 31 to 40 M	Each	455000.00
.7.31	Discharge 61 to 70 LPS and head 41 to 50 M	Each	635185.00
.7.31	Discharge 61 to 70 LPS and head 51 to 60 M	Each	754723.00
.7.32	Discharge 61 to 70 LPS and head 61 to 70 M	Each	927926.00
	Discharge 61 to 70 LPS and head 71 to 80 M	Each	927926.00
.7.34	Discharge 61 to 70 LPS and head 81 to 90 M	Each	1070902.00
.7.35	Discharge 71 to 80 LPS and head 20 to 30 M	Each	455000.00
.7.36		Each	536538.00
.7.37	Discharge 71 to 80 LPS and head 31 to 40 M	Each	754723.00
.7.38	Discharge 71 to 80 LPS and head 41 to 50 M	Each	927926.00
.7.39	Discharge 71 to 80 LPS and head 51 to 60 M	Each	927926.00
.7.40	Discharge 71 to 80 LPS and head 61 to 70 M	Each	1070902.00
.7.41	Discharge 71 to 80 LPS and head 71 to 80 M		1282359.00
5.7.42	Discharge 71 to 80 LPS and head 81 to 90 M	Each	455000.00
5.7.43	Discharge 81 to 90 LPS and head 20 to 30 M	Each	635185.00
5.7.44	Discharge 81 to 90 LPS and head 31 to 40 M	Each	· · · ·
5.7.45	Discharge 81 to 90 LPS and head 41 to 50 M	Each	754723.00 927926.00
5.7.46	Discharge 81 to 90 LPS and head 51 to 60 M	Each	
5.7.47	Discharge 81 to 90 LPS and head 61 to 70 M	Each	927926.00
5.7.48	Discharge 81 to 90 LPS and head 71 to 80 M	Each	1282359.0
5.7.49	Discharge 81 to 90 LPS and head 81 to 90 M	Each	1282359.0
5.7.50	Discharge 91 to 100 LPS and head 20 to 30 M	Each	536538.00
5,7.51	Discharge 91 to 100 LPS and head 31 to 40 M	Each	754723.00
5.7.52	Discharge 91 to 100 LPS and head 41 to 50 M	Each	927926.00
5.7.53	Discharge 91 to 100 LPS and head 51 to 60 M	Each	927926.00
5.7.54	Discharge 91 to 100 LPS and head 61 to 70 M	Each	1070902.0
5.7.55	Discharge 91 to 100 LPS and head 71 to 80 M	Each	
5.7.56	Discharge 91 to 100 LPS and head 81 to 90 M	Each	1428405.0
5.7.57	Discharge 101 to 120 LPS and head 20 to 30 M	Each	536538.00
5.7.58	Discharge 101 to 120 LPS and head 31 to 40 M	Each	754723.00
5.7.59	Discharge 101 to 120 LPS and head 41 to 50 M	Each	927926.0
5.7.60	Discharge 101 to 120 LPS and head 51 to 60 M	Each	1070902.0
5.7.61	Discharge 101 to 120 LPS and head 61 to 70 M	Each	1282359.0
5.7.62	Discharge 101to 120 LPS and head 71 to 80 M	Each	1282359.0
5.7.63	Discharge 101to 120 LPS and head 81 to 90 M	Each	1798036.0
5.7.64	Discharge 121 to 140 LPS and head 20 to 30 M	Each	635185.0
5.7.65	Discharge 121 to 140 LPS and head 31 to 40 M	Each	927926.0
5.7.66		Each	1070902.0
5.7.67	Discharge 121 to 140 LPS and head 51 to 60 M	Each	1282359.0
5.7.68		Each	1282359.0
5.7.69		Each	1479948.0
5.7.70		Each	1798036.0
5.7.71	11 - 120 to 20 M	Each	754723.0
5.7.72		Each	927926.0
5.7.73		Each	1282359.
5.7.74		Each	1428405.
5.7.75		Each	1798036.
5.7.76		Each	1798036.
5.7.77		Each	2127544.

Pump sets

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5r. No.			
	Discharge 161 to 180 LPS and head 20 to 30 M	Each	927926.00
	Discharge 161 to 180 LPS and head 20 to 30 M	Each	1070902.00
.7.79	Discharge 161 to 180 LPS and head 31 to 50 M	Each	1282359.00
.7.80	Discharge 161 to 180 LPS and head 51 to 50 M	Each	1479948.00
.7.81	Discharge 161 to 180 LPS and head 51 to 60 M	Each	1798036.00
.7.82	Discharge 161 to 180 LPS and head 61 to 70 M	Each	1860530.00
.7.83	Discharge 161 to 180 LPS and head 71 to 80 M	Each	2127544.00
.7.84	Discharge 161 to 180 LPS and head 81 to 90 M	Each	927926.00
.7.85	Discharge 181 to 200 LPS and head 20 to 30 M	Each	1282359.00
5.7.86	Discharge 181 to 200 LPS and head 31 to 40 M	Each	1428405.00
5.7.87	Discharge 181 to 200 LPS and head 41 to 50 M	Each	1798036.00
5.7.88	Discharge 181 to 200 LPS and head 51 to 60 M	Each	1860530.00
5.7.89 ·	Discharge 181 to 200 LPS and head 61 to 70 M	Each	2178397.00
5.7.90	Discharge 181 to 200 LPS and head 71 to 80 M	Each	2390539.00
5.7.91	Discharge 181 to 200 LPS and head 81 to 90 M		
5.8	Providing and fixing at site with necessary packing, Horizontal Centrifugal		l de la company. La company
	Split Casting pumps with 4 pole induction motor operating at synchronised		
	speed of speed 1500 RPM as per IS 12615: 2011 or amended up to date , Cl		
	casing and casing ring. SS 316 impeller, SS 410 Shaft and shaft sleeve,		
	coupling guard, common base plate, foundation bolts, Cement concrete		
	foundation etc. complete with all respect as per the specification and scope		
	of work and direction of Engineer in Charge of following range of duty		
	conditions.		
	Note: Duty condition of required pump shall also be mentioned in BoQ.		
			927926.00
5.8.1	Discharge 201 to 220 LPS and head 20 to 30 M	Each Each	1282359.0
5.8.2	Discharge 201 to 220 LPS and head 31 to 40 M	Each	1798036.0
5.8.3	Discharge 201 to 220 LPS and head 41 to 50 M	Each	1860530.0
5.8.4	Discharge 201 to 220 LPS and head 51 to 60 M	Each	2127544.0
5.8.5	Discharge 201 to 220 LPS and head 61 to 70 M		1.070902.0
5.8.6	Discharge 221 to 240 LPS and head 20 to 30 M	Each	1428405.0
5.8.7	Discharge 221 to 240 LPS and head 31 to 40 M	Each Each	1798036.0
5.8.8	Discharge 221 to 240 LPS and head 41 to 50 M		2127544.0
5.8.9		Each	212/344.0
5.8.10	D Discharge 221 to 240 LPS and head 61 to 70 M	Each	1070902.0
5.8.1	1 Discharge 241 to 260 LPS and head 20 to 30 M	Each	
5.8.1	2 Discharge 241 to 260 LPS and head 31 to 40 M	Each	1479948
5.8.1	3 Discharge 241 to 260 LPS and head 41 to 50 M	Each	1798036.0
5.8.1	Fight of the state of Fight SOM	Each	2127544.
5.8.1		Each	2390539.
5.8.1	12	Each	1282359
5.8.1	1000100 Jbord 21 to 10 M	Each	1798036.
5.8.1		Each	1860530.
5.8.1		Each	2178397.
5.8.2		Each	2654578.
5.8.2	and the second based 10 to 20 M	Each	1282359.
5.8.2		Each	1798036.
5.8.2		Each	2127544
	The second second hard E1 to 60 M	Each	2178397
5.8.2	- Contract and the set of the TO M	Each	2654578
5.8.2	26 Discharge 301 to 325 LPS and head 20 to 30 M	Each	1428405
5.8.2	C Discharge 201 to 325 LPS and head 20 to 30 ML		1798036

Pump sets

Sr. No.	Description	Unit	Amended Rate(Rs.)
5.8.28	Discharge 301 to 325 LPS and head 41 to 50 M	Each	2178397.00
5.8.29	Discharge 301 to 325 LPS and head 51 to 60 M	Each	2390539.00
5.8.30	Discharge 301 to 325 LPS and head 61 to 70 M	Each	2888448.00
5.8.31	Discharge 326 to 350 LPS and head 20 to 30 M	Each	1428405.00
5.8.32	Discharge 326 to 350 LPS and head 31 to 40 M	Each	1860530.00
5.8.33	Discharge 326 to 350 LPS and head 41 to 50 M	Each	2178397.00
5.8.34	Discharge 326 to 350 LPS and head 51 to 60 M	Each	2654578.00
5.8.35	Discharge 326 to 350 LPS and head 61 to 70 M	Each	2888448.00
5.8.36	Discharge 351 to 400 LPS and head 20 to 30 M	Each	1798036.00
5.8.37	Discharge 351 to 400 LPS and head 31 to 40 M	Each	2127544.00
5.8.38	Discharge 351 to 400 LPS and head 41 to 50 M	Each	2390539.00
5.8.39	Discharge 351 to 400 LPS and head 51 to 60 M	Each	2888448.00
5.8.40	Discharge 351 to 400 LPS and head 61 to 70 M	Each	3292301.00
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Pump sets

#### Chapter 6

## Valves and Appurtenances

S. No.	Description	Unit	Amended Rate (Rs.)
6.1	Providing, lowering, aligning, fixing in position in pipe line, CI D/F Sluice		
	valves straight and pocket less body passage of approved make of following		
	Pressure rating & dia complete, confirming to IS:14846 (amended up to date) and		
1. <u>1</u> . 1.	of following specifications: Body, Bonnet, Wedge, Gland, Thrust Plate, Cap & Hand,		
	wheel of Grey cast iron of IS:210/ FG200 Stem - AISI- 410 ,Body Seat ring, Wedge		
	facing ring & Bushes - LTB2/ SS , Face to face dimensions as per IS 14846/2000		
	(amended up to date) ,Epoxy ( Non-Toxic- suitable for drinking water) applied	÷	
	inside and outside, Flanges Drilled as per IS 1538. Nut-Boit confirming to IS:1363		
	and IS: 1367/ CS/ galvanised steel Insertion rubber of black EPDM 6mm thick .		
	Sluice valves including all jointing & jointing material, labour, testing and		
	commissioning along with pipe line as per Technical Specifications and as per		
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	direction of Engineer-in-charge.		
	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		an sin ru
	Note. Rates are exclusive of tan piece/ distriction gloring drive and earth to sta		11 12 A. A.
		· · ·	· · · ·
6.1.1	Manually Operated CI Sluice valve of Class PN-1.0		
6.1.1.1	80 mm HW	Each	6219.00
6.1.1.2		Each	8768.00
6.1.1.3	125 mm HW	Each	11421.00
6.1.1.4	150 mm HW	Each	14321.00
6.1.1.5	200 mm HW	Each	22889.00
6.1.1.6	250 mm HW	Each	36242.00 48899.00
6.1.1.7	300 mm HW	Each	91666.00
6.1.1.8	350 mm with Gear	Each	119775.00
6.1.1.9	400 mm with Gear	Each	158530.00
6.1.1.10		Each	194498.00
6.1.1.11		Each Each	279467.00
6.1.1.12	600 mm with Gear	Each	2/3407.00
6.1.2	Motorized Sluice Valves with Electric Actuator with integral starter of Class PN 1.0		1
6.1.2.1	80 mm dia	Each	120737.00
6.1.2.2	100 mm dia	Each	125977.00
6.1.2.3	125 mm dia	Each	131963.00
6.1.2.4	150 mm dia	Each	140146.00
6.1.2.5		Each	158601.00
6.1.2.6	250 mm dia	Each	179889.00
6.1.2.7		Each	193720.00
6.1.2.8	350 mm día	Each	241672.00
6.1.2.9	400 mm dia	Each	273273.00
6.1.2.10		Each	318061.00
6.1.2.11		Each	364790.00
6.1.2.12	600 mm dia.	Each	453083.00
6.2	Providing, lowering, laying, aligning, fixing in position CI D/F short body	· · .	
	pattern type butterfly valves having body, disc and end cover in graded cast iron		
	generally conforming to (IS13095/1991amended up to date), synthetic rubber	1 1 A 1	
	faced ring secured on disc by retaining ring with SS steel screw stub shaft of SS		
	riding in Teflon bearing including C.C. foundation/ structural steel support,	din a	$= \left\{ \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $
	material, labour, testing along with pipe line and commissioning as per	11	
· ·	Technical Specifications and as per direction of Engineer in charge.		
	Note: Rates are exclusive of tail piece/ dismantling joints and earth work		
6.2.1	Manually Operated Butterfly Valve PN-1.0		40500.00
6.2.1.1		Each	13623.00

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Valves and Appurtenances

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S. No.	Description	Unit	Amended Rate (Rs.)
1	125 mm dia ( With lever operated)	Each -	17582.00
	125 mm dia ( With lever operated)	Each	21877.00
		Each	35527.00
	200 mm dia (With Gear Operated)	Each	44938.00
	250 mm dia (With Gear Operated)	Each	55807.00
	300 mm dia (With Gear Operated)	Each	68974.00
	350 mm dia (With Gear Operated)	Each	87057.00
	400 mm dia (With Gear Operated)	Each	105224.00
	450 mm dia (With Gear Operated)	Each	125666.00
	500 mm dia (With Gear Operated)	Each	174298.00
	600 mm dia (With Gear Operated)	Each	249036.00
	700 mm dia (With Gear Operated)	Each	343398.00
6.2.1.13	800 mm dia (With Gear Operated)	Each	443112.00
5.2.1.14	900 mm dia (With Gear Operated)	Each	567529.00
5.2.1.15	1000 mm dia (With Gear Operated)		00.020.00
6.3	Providing, lowering, aligning, fixing in position in pipe line, <b>CI double flanged swing</b>	•	
	type Non Return Valves (NRV) of approved make of following Pressure rating &		
	dia complete, confirming to IS: 5312 (part -1)/ 2004 (amended up to date) and of		<b> </b>
	following specifications: Body, Cover & disc of Grey cast iron of IS:210/ FG200.		1. 1. 1. 1. A.
. *	Face to face dimensions as per IS 5312 (part -1):2004, Flanges Drilled as per		
	IS 1538, Epoxy (Non-Toxic & suitable for drinking water) applied on body, cover		
	and disc inside and outside . Body seat ring of SS/CS Door face ring - EPDM/		
1	Neoprene (food grade quality) ,Shaft of SS- AISI- 410 ,Hinge Malleable cast iron /		
	iss AISI 316 Bonnet Gasket EPDM, Bush- Leaded tin Bronze/ PIE1, Gasket		
	FPDM/NBR .Nut-Bolt as per IS:1363 and IS: 1367 (galvanised steel) , insertion		
	hubber of black EPDM 6mm thick. Suitable support structure as per directions of		
	FIC including jointing & jointing material, labour, testing and commissioning along		
	with pipeline as per Technical Specification & as per direction of Engineer-in-	1997 - L	
· .	charge		
	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		
6.3.1	Class PN 1.0		<u></u>
6.3.1.1	80 mm dia	Each	6461.00 8402.00
6.3.1.2	100 mm dia	Each	11158.00
6.3.1.3	125 mm dia	Each	
6.3.1.4	150 mm dia	Each	13954.00
6.3.1.5		Each	
6.3.1.6		Each	38872.00
6.3.1.7	300 mm dia	Each	53847.00
6.3.1.8		Each	94889.00
6.3.1.9		Each	133124.0
6.3.1.10		Each	169082.0
6.3.1.1		Each	233006.0
0.0.4.4.	2 600 mm dia	Each	366871.0

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· · · · · · · · · · · · · · · · · · ·	Decertintion	Unit	Amended Rat (Rs.)
No.	Description		(KS.)
6.4	Providing, lowering, aligning, fixing in position in pipe line, CI double flanged Dual	· .	
	whether shock wake of approved make of following Pressure rating & una completer,		
. 1	a and of following specifications: Body & Cover of Grey		an a
1.16.1	List the effection Disc / plates - Cast steel, Disc Seal ring of LEDWY Non		
	Kend grade guality) Body seat of SS Face to face dimensions as per API. 554		
	Thereas Drilled as per IS-1538. Fnoxy (Non-Loxic & suitable for unitaring water)	Ì	
	emplied on body & cover inside and outside . Shaft/Stop PIn of 55- Al51- 504/410 /	· · .	e se statue
	Litures CC ALCH 216/204 / CS Spring SS ALSI 316/304 , Bonnet Gasket EPDIVI, Dusin		
·. ·	Increase with EDDM/NBR "O "ring seal Nut-Bolt confirming to 15:1365 and 15: 1367		
	(asturnized stool) Insertion rubber of black EPDW 6mm thick . Suitable Support		
	atmusture or per directions of FIC including jointing & jointing material, labour,		
	testing and commissioning along with pipeline as per Technical Specification & as		
1. C	per direction of Engineer-in-charge.		
	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		) ·
6.4.1	Class PN 1.0	Each	6178.00
5.4.1.1	80 mm dia 100 mm dia	Each	8025.00
5.4.1.2		Each	9892.00
5.4.1.3	125 mm dia	Each	12726.00
5.4.1.4	150 mm dia 200 mm dia	Each	22038.00
5.4.1.5		Each	36352.00
6.4.1.6		Each	49669.00
6.4.1.7	300 mm dia	Each	62268.00
6.4.1.8	350 mm dia	Each	88779.00
6.4.1.9		Each_	112929.0
5.4.1.10		Each	120577.0
5.4.1.11	con un dia	Each	164363.0
6.4.1.12	Braviding lowering aligning fixing in position and Jointing in pipe line, CI single Ali		
6,5	Figure Figure of approved makes for following pressure rating a	· .	
	the exercises confirming to IS 14845-2000 (amended up to date) and of following		· . · · ·
	Rody, Cover and Cowl - Grey Cast Iron as per 15:210-10 200, 1000		
	Chainless Stool AISI 204 / IS: 3444 Float Guide- HBIT, Body Seat Ting - Leaded to		and the second
	- Line was / cc.: Soat ring and face ring - FPDM/NBR, Ends flanged according to 19 0410		
1 A.	Surgered type shall have external nine threads conforming to 15 554 Pasteriors		
	include of food grade safe for uninking water yource		
	including all material, labour, testing and commissioning as per Technical		
	specifications and as ner direction of Engineer in charge.		
	Note: Rates are exclusive of connecting tee, pipe piece and earth work.		
6 8 4	Class PN 1.0		
6.5.1		Each	2480.0
6.5.1. 6.5.1.		Each	3234.0
6.5.1.		Each	3979.0
6.5.1.		Each	4981.0
6.5.2		Each	2773.0
6.5.2.		Each	3507.0
6.5.2		Each	4719.0
6.5.2		Each	5252.0
6.5.2			$\wedge$

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. No.	Description	Unit	Amended Rate (Rs.)
	Providing, lowering, aligning, fixing in position and Jointing in pipe line, <b>CI Double</b>	•	
	Acting Kinetic Air Valve with isolating Sluice Valve of approved makes for		
	following proceure rating & dia complete, confirming to 15: 14045"2000 (amended)		la transmeria de la composición de la c
	up to data) and of following specifications: Body, Cover and Cowi - Grey Cast non		
	as par IS 210, EG 200 Float - Stainless Steel AISI 304 / IS: 3444 , Float Guide-		
	UPT1 HP Orifice- HTB2/ SS Body seat ring - Leaded tin pronze/ SS Sear ring and		
. *	face ring - EPDM/NBR Ends flanged according to IS 6418, Fastners - CS, EPDXy partici-		
· .	incide outside of food grade safe for drinking water, valves including all material		
	labour, testing and commissioning as per Technical Specifications and as per	÷	
1999 - A.	direction of Engineer in charge.		
	Note: Rates are exclusive of connecting tee, pipe piece and earth work.		
6.6.1	Class PN 1.0		47974 00
5.6.1.1	40 mm	Each	12374.00
5.6.1.2	50 mm	Each	13843.00
5.6.1.3	80 mm	Each	18416.00
6.6.1.4	100 mm	Each	24942.00
6.6.1.5	150 mm	Each	51954.00 79774.00
6.6.1.6	200 mm	Each	19774.00
6.6.2	Class PN 1.6		12222.00
6.6.2.1	40 mm	Each	13222.00
6.6.2.2	50 mm	Each	18419.00
6.6.2.3	80 mm	Each	25624.00
6.6.2.4	100 mm	Each	52236.00
6.6.2.5	150 mm	Each	80928.00
6.6.2.6	200 mm	Laun	00520101
6.7	Providing, lowering, aligning, fixing in position and Jointing in pipe line, CI Body	· .	
	Flanged End Tamper proof Kinetic Air Valve of approved makes of following		
1.12	pressure rating and dia and as per following specifications: Governing standard -		
1.1	AWWA C512/ IS:14845:2000(amended up to date), Body, High pressure cover , Low		
	pressure cover, Cowl and Joint support ring - Grey cast iron of grade IS:210/FG200		
	Float- LP ball & HP ball : AISI 304 stainless Steel, Float Guide- HTB1,Seat ring &		
	Gasket - EPDM/NBR, HP Orifice & HP orifice plug : HTB2/SS, Bush: Bronze , Flanges		
	as per IS/ BS, Drilled as per IS:1538. Epoxy paint (Non-Toxic & suitable for drinking		
	water) applied on body & cover inside and outside Fasteners - CS/ Galvanised		
	steel ,Outlet of big orifice will have a screen to prevent Tamper of float, with Ci metal seated D/F Non rising stem Sluice Valves as per (IS: 14846 amended up to		
	date) PN 1.0 ratings Valves including all material, labour, testing and		
	date) PN 1.0 ratings valves including an induction, including commissioning as per Technical Specifications and as per direction of Engineer in		
an dina. Manang	charge. Note: Rates are exclusive of connecting tee, pipe piece and earth work.	1 .	
6.7.1	Class PN 1.0	Each	
6.7.1.		Each	
6.7.1.		Each	
6.7.1.	3 80 mm	Each	
6.7.1.		Each	
6.7.1.	5  150 mm	Each	58875.0

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. No.	Description	Unit	Amended Rat (Rs.)
<u> </u>	roviding, lowering, aligning, fixing in position in pipe line at work site, Di D/F		
	resilient seated (soft seated) Sluice Valves (Gate Valves), Vacuum tight(Dubble		
·	ight) straight and nocket less body passage of approved make of following class &		
L.	lia complete confirming to BS-EN-1171/ AWWA C-509 and of following	· ]	
	pecifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per	1	
S	DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2		1
	1985 and subsequent revisions, Wedge of same material as body & shall		1. S.
1	ulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to	· · · ·	
1	ulcanised rubber lined with EPDW (lood grade quality) and source the date) /Din		
f	face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din		
	3202 F4, Stem/ spindle of SS AISI 316/410 Electrostatic epoxy powder(EP-P)/	· · · · ·	
. 1	Fusion bond epoxy ( Non-Toxic- suitable for drinking water) coated with minimum	· · ·	
[1	thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt		-
	confirming to IS:1363 and IS: 1367 (Galvanised steel) Insertion rubber of black		
<u> </u>	EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves		
	including all jointing & jointing material, labour, testing and commissioning along		
. l	with pipe line as per Technical Specifications and as per direction of Engineer-in-		i -
	charge		
İ	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.	•	
	Manually Operated Resilient Seated Sluice Valves of Class PN 1.6	Each	9599.00
	80 mm dia	Each	11800.00
	100 mm dia	Each	17832.00
	125 mm dia	Each	20518.00
	150 mm dia	Each	31698.00
	200 mm dia	Each	53688.00
5.8.1.6	250 mm dia	Each	67874.00
5.8.1.7	300 mm dia	Each	129786.0
5.8.1.8	350 mm dia	Each	168623.0
6.8.1.9	400 mm dia	Each	226574.0
	450 mm dia	Each	293032.0
	500 mm dia	Each	431444.0
	600 mm dia.	Each	807614.0
5.8.1.13	700 mm dia. With Gear	Each	1137778.0
5.8.1.14	800 mm dia. With Gear	Each	1597899.0
5.8.1.15	900 mm dia. With Gear	Each	2125695.0
5.8.1.16	1000 mm dia. With Gear		-
6.8.2	Motorized Sluice Valves with Electric Actuator and Integral starter of Class PN		
	1.0	Each	132426.0
6.8.2.1	80 mm dia	Each	136674.0
6.8.2.2	100 mm dia	Each	144043.0
6.8.2.3	125 mm dia	Each	150399.0
6.8.2.4	150 mm dia	Each	173735.0
6.8.2.5	200 mm dia	Each	200411.0
6.8.2.6	250 mm dia	Each	220173.0
6.8.2.7	300 mm dia	Each	287994.
6.8.2.8	350 mm dia	Each	322376.
6.8.2.9	400 mm dia	Each	408337.
6.8.2.10		Each	475663.
6.8.2.11	500 mm dia	Each	600613.
6.8.2.12	600 mm dia.		
6.8.3	Motorized Sluice Valves with Electric Actuator and integral starter of Class	-	<u> </u>
	1.6	Each	134679
6.8.3.1		Each	138280
6.8.3.2		Each	148606
6.8.3.3		Each	151924
6.8.3.4	150 mm dia	Each	170122
6.8.3.5		Each	
6.8.3.6		1	

Valves and Appurtenances

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S. No.	Description	Unit	Amended Rat (Rs.)
	300 mm dia	Each	214185.00
5.8.3.7	350 mm dia	Each	287564.00
5.8.3.8 5.8.3.9	400 mm dia	Each	320622.00
	450 mm dia	Each	398637.00
	500 mm dia	Each	475832.00
.8.3.12	600 mm dia.	Each	610319.00
6.9	Providing, lowering, aligning, fixing in position in pipe line, DI D/F resilient seated		
0.5	(soft seated) short body pattern type double eccentric Butterfly valves of		
	approved make of following class & dia complete confirming to BS EN 593/ BS		
	5155/ IS 13095/1991 amended up to date and of following specifications: Body,		
	disc and end cover of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or		
	GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and		
	subsequent revisions, Face to face dimensions as per DIN 3202 F4/ IS 13095	•	
	Drilled as per IS:1538. Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy		in the second
	(Non-Toxic & suitable for drinking water) coated with minimum thickness of 250		
	micron applied on both body and disc inside and outside. Disc seal ring of EPDM/		
· · · ·	Neoprene (food grade quality) and disc seal retaining ring of SS/CS. Shaft of SS-		
	AISI- 410/316 & shaft bearings- bronze/ PTET or Teflon with EPDM/NBR "O "ring		
	seal, Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Insertion		- · · ·
	rubber of black EPDM 6mm thick. Suitable support structure as per directions of		
	EIC including jointing & jointing material, labour, testing and commissioning along		
·	with pipeline as per Technical Specification & as per direction of Engineer-in-	e.,	. ·
	charge.		
<u>-</u> -	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		
6.9.1	Class PN 1.6, Manually Operated with Gear		53433 00
6.9.1.1	100 mm dia	Each	53433.00
6.9.1.2	150 mm dia	Each	62710.00 64808.00
6.9.1.3	200 mm dia	Each Each	71688.00
6.9.1.4	250 mm dia	<u>Each</u> Each	83105.00
6.9.1.5	300 mm dia	Each	104096.00
6.9.1.6	350 mm dia	Each	135436.00
6.9.1.7		Each	171010.00
6.9.1.8	450 mm dia	Each	215476.00
6.9.1.9		Each	270343.00
6.9.1.10		Each	373272.00
	700 mm dia	Each	498133.0
	800 mm dia.	Each	637981.0
	900 mm dia.	Each	833418.0
	1000 mm dia. Class PN 1.0, Motorised Operated		
6.9.2		Each	175475.0
6.9.2.1		Each	186393.0
6.9.2.2		Each	213288.0
6.9.2.4		Each	233729.0
6.9.2.4		Each	265222.0
6.9.2.6		Each	299042.0
6.9.2.7		Each	332937.0
6.9.2.8		Each	389805.0
6.9.2.9		Each	504330.0
6.9.2.10		Each	645868.0
6.9.2.1		Each	785507.0
6.9.2.1		Each	1011875.
6.9.3			
6.9.3.1		Each	175113.0
6.9.3.2		Each	192658.0 220468.0
0.9.5.2		Each	

5. No.	Description	Unit	Amended Rate (Rs.)
		Each	242109.00
5.9.3.4	350 mm dia	Each	274992.00
5.9.3.5	400 mm dia	Each	309573.00
.9.3.6	450 mm dia	Each	346047.00
9.3.7	500 mm dia	Each	401652.00
6.9.3.8	600 mm dia	Each	520335.00
5.9.3.9	700 mm dia.	Each	686546.00
9.3.10	800 mm dia.		821743.00
9.3.11	900 mm dia.	Each	1060415.00
.9.3.12	1000 mm dia.	Each	1060415.00
6.10	Providing, lowering, aligning, fixing in position in pipe line, DI resilient seated (soft		
	seated) Concentric Wafer type, Butterfly valves of approved make of following		•
1.1	Pressure rating & dia complete confirming to BS EN 593/ BS 5155/ IS 13095/1991	.	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	amended up to date and of following specifications: Body- Ductile cast iron of		
· .	grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or		
	equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Disc		
	- DI (same as body material) / CS, Face to face dimensions as per DIN 3202 F4/ IS		
	13095, Flanges Drilled as per IS:1538, Electrostatic Epoxy Powder(EP-P) / Fusion		
1.1	Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum	ļ	
	thickness of 250 micron applied on both body and disc inside and outside . Liner &	· · ·	· · ·
	Disc seal - EPDM/ Neoprene (food grade quality) ,Shaft of SS- AISI- 410/420 & shaft.		
	bearings- bronze/ PTET or Teflon with EPDM/NBR "O "ring seal, Nut-Bolt	÷1	1
1.1	bearings- bronze/ PIEI of Terion with EPDW/Nor O mig sear , the back		
	confirming to IS:1363 and IS: 1367/ Galvanised steel, Insertion rubber of black		
	EPDM 6mm thick ,Suitable support structure as per directions of EIC including	. *	· ·
	jointing & jointing material, labour, testing and commissioning along with pipeline	1. A. A.	
	as per Technical Specification & as per direction of Engineer-in-charge.		
	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		
6.10.1	Class PN 1.6, Wafer Type		
6,10.1.1		Each	10774.00
	100 mm (Lever Operated)	Each	13020.00
	125 mm (Lever Operated	Each	21904.00
	150 mm (Lever Operated)	Each	24099.00
6.10.1.5		Each	37056.00
	250 mm (with Gear)	Each	48714.00
6.10.1.7	200 mm (with Gear)	Each	53753.00
	Providing, lowering, aligning, fixing in position in pipe line, DI D/F resilient seated		· · ·
6.11	(soft seated) Swing type Non Return Valve of approved make of following		
	Pressure rating & dia complete, generally confirming to IS: 5312 (part -1)/ 2004		
	(amended up to date) and of following specifications: Body, Bonnet & disc of		
	Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR 5G-400/12 as per		
	Ductile cast iron of grade doud40/d0050 as per Div 1050 of on 50 100/12 di per	·	
	IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions,		
•	Face to face dimensions as per IS 5312 (part -1):2004 Drilled as per IS:1538.		· · ·
	Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for		:
	drinking water) coated with minimum thickness of 250 micron applied on body,	<u> </u>	
	cover and disc inside and outside . Disc seal ring of EPDM/ Neoprene (food grade		1
	multing and disc seal retaining ring of SS/CS.Shaft of SS- AISI- 410, Hinge SS AISI	1	
· ·	1216/410 Bonnet Gasket EPDM .Bush- Brass with EPDM/NBR "O "ring seal Nut-	-1	
	Bolt confirming to IS:1363 and IS: 1367 (gaivanised steel) Insertion rubber of black		
	FOOM Some thick Suitable support structure as per directions of EIC including	5	- I
1997 - S.	lighting & jointing material, labour, testing and commissioning along with pipeline	3 · · ·	
	as ner Technical Specification & as per direction of Engineer-In-charge.		
224	Note: Rates are exclusive of tail piece/ dismantling joints and earth work.	1	
- A _ 1			
	Class PN 1.6	Each	9464.00
6.11.			
<b>6.11.</b> 6.11.1		Each	12411.0

Valves and Appurtenances

S. No.	Description	Unit	mended Rate (Rs.)
1 A A A	Description	Each	17659.00
5.11.1.3	125 mm dia	Each	21451.00
5,11.1.4	150 mm dia	Each	35512.00
5.11.1.5	200 mm dia	Each	54968.00
5,11.1.6	250 mm dia	Each	76752.00
	300 mm dia	Each	132142.00
	350 mm dia	Each	178872.00
	400 mm dia	Each	232089.00
	450 mm dia	Each	276755.00
	500 mm dia		367489.00
	600 mm dia	Each	507485.00
6.12	tion aligning fixing in position in pipe line, DI double nanged		
0.12	I I I I I I I I I I I I I I I I I I I		
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4			
· · ·	I see a classes Dellad as par 15/154X Electrostatic Lipoxy i gwach (a 17)	· ·	
	I		
· · · ;	t and and another applied on hony and cover inside and outside in	н н с 1	
	I and use set report / Neoprene (food grade duality) and use sear retaining in a	· · ·	
		L .	
			1 .
	The second second bush, Brace with EPUIVIANDE V 1016 Second test		
	316/304, Bonnet Gasket EPDM , Bush- Brass with EPDM/NBR Of Ting Scott, red black		
	316/304, Bonnet Gasket EPDM , Bush- Brass with EPDM/NBR O mig scal, net end of the scale of the		
	316/304, Bonnet Gasket EPDM , Bush- Brass with EPDM/NBR O mig scal, net end of the scale of the		
	316/304,Bonnet Gasket EPDM, Bush-Brass with EPDW/NBA O Ting Scaling confirming to IS:1363 and IS: 1367 (galvanised steel), Insertion rubber of black EPDM 6mm thick Suitable support structure as per directions of EIC including lainting & jointing material, labour, testing and commissioning along with pipeline		
	316/304,Bonnet Gasket EPDM, Bush-Brass with EPDW/NBA O Ting Scaling confirming to IS:1363 and IS: 1367 (galvanised steel), Insertion rubber of black EPDM 6mm thick Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline material, society as per direction of Engineer-in-charge.		
	316/304,Bonnet Gasket EPDM, Bush-Brass with EPDW/NBA O Ting Scaling confirming to IS:1363 and IS: 1367 (galvanised steel), Insertion rubber of black EPDM 6mm thick Suitable support structure as per directions of EIC including lainting & jointing material, labour, testing and commissioning along with pipeline		
	316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDW/NBK O' Hing Stati, Net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge. Note: Rates are exclusive of tall piece/ dismantling joints and earth work.		
6.12.1	316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDW/NBK O Hing Stati, Net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge. Note: Rates are exclusive of tall plece/ dismantling joints and earth work. Class PN 1.6		11599.00
6.12.1.	<ul> <li>316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDM/NBK O Ting Scal, red confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning along with pipeline as per Technical Specification &amp; as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>Class PN 1.6</li> <li>1 80 mm dia</li> </ul>		
6.12.1. 6.12.1.	316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDW/NBK O Ting Scal, red confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. Class PN 1.6 1 80 mm dia	Each	13584.0
6.12.1. 6.12.1. 6.12.1.	316/304,Bonnet Gasket EPDM, Bush- Brass with EPDM/NBK Orming scal, net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         Class PN 1.6         1       80 mm dia         2       100 mm dia         3       125 mm dia	Each Each	13584.00 14509.0
6.12.1. 6.12.1. 6.12.1. 6.12.1.	316/304,Bonnet Gasket EPDM, Bush- Brass with EPDM/NBK Orming scaling         confirming to IS:1363 and IS: 1367 (galvanised steel), Insertion rubber of black         EPDM 6mm thick Suitable support structure as per directions of EIC including         jointing & jointing material, labour, testing and commissioning along with pipeline         as per Technical Specification & as per direction of Engineer-in-charge.         Note: Rates are exclusive of tall piece/ dismantling joints and earth work.         Class PN 1.6         1         2       100 mm dia         3       125 mm dia         4       150 mm dia	Each Each Each	13584.0 14509.0 21213.0
6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1.	316/304,Bonnet Gasket EPDM ,Bush- Brass with EPDM/NBK O mig scal, red confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         Class PN 1.6         1       80 mm dia         3       125 mm dia         4       150 mm dia         5       200 mm dia	Each Each Each Each Each	13584.0 14509.0 21213.0 37792.0
6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1.	<ul> <li>316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDM/NBK O mig scal, net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning along with pipeline as per Technical Specification &amp; as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>Class PN 1.6</li> <li>1 80 mm dia</li> <li>2 100 mm dia</li> <li>3 125 mm dia</li> <li>4 150 mm dia</li> <li>5 200 mm dia</li> <li>6 250 mm dia</li> </ul>	Each Each Each Each Each Each	13584.0 14509.0 21213.0 37792.0 57774.0 79409.0
6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1.	316/304,Bonnet Gasket EPDM ,Bush- Brass with EPDM/NBK O mig scal, red confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning along with pipeline as per Technical Specification & as per direction of Engineer-in-charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         Class PN 1.6         1       80 mm dia         3       125 mm dia         4       150 mm dia         5       200 mm dia	Each Each Each Each Each Each Each	13584.00 14509.00 21213.00 37792.0 57774.0 79409.0
6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1. 6.12.1.	<ul> <li>316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDW/NBK O' Hing steil, net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning along with pipeline as per Technical Specification &amp; as per direction of Engineer-in-charge. Note: Rates are exclusive of tall piece/ dismantling joints and earth work.</li> <li>Class PN 1.6</li> <li>1 80 mm dia</li> <li>2 100 mm dia</li> <li>3 125 mm dia</li> <li>4 150 mm dia</li> <li>5 200 mm dia</li> <li>6 250 mm dia</li> <li>7 300 mm dia</li> </ul>	Each Each Each Each Each Each Each	13584.0 14509.0 21213.0 37792.0 57774.0 79409.0 86816.0
6.12.1.         6.12.1.         6.12.1.         6.12.1.         6.12.1.         6.12.1.         6.12.1.         6.12.1.         6.12.1.	316/304,Bonnet Gasket EPDM, Bush- Brass with EPDM/NBK Orming scentration of the second steel of	Each Each Each Each Each Each Each Each	13584.0 14509.0 21213.0 37792.0 57774.0 79409.0 86816.0 115493.
6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1         6.12.1	<ul> <li>316/304,Bonnet Gasket EPDM ,Bush-Brass with EPDW/NBK O mig seal, net confirming to IS:1363 and IS: 1367 (galvanised steel) , Insertion rubber of black EPDM 6mm thick .Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning along with pipeline as per Technical Specification &amp; as per direction of Engineer-in-charge. Note: Rates are exclusive of tall piece/ dismantling joints and earth work.</li> <li>Class PN 1.6</li> <li>1 80 mm dia</li> <li>2 100 mm dia</li> <li>3 125 mm dia</li> <li>4 150 mm dia</li> <li>5 200 mm dia</li> <li>6 250 mm dia</li> <li>8 350 mm dia</li> </ul>	Each Each Each Each Each Each Each Each	11599.00 13584.00 14509.00 21213.00 37792.00 57774.00 79409.00 86816.00 115493.0 13792.0.0 13792.0.0 165058.1

5. No.	Description	Unit	<u>(Rs.)</u>
6.13	Providing, lowering, aligning, fixing in position and Jointing in pipe line, DI Body		
0.10	Figure a Tamper proof Kinetic Air Valve of approved makes of tonothing		
· .	standard provide and dia and as ner following specifications: Governing standard		
	awawa crah/is.14945-2000(amended un to date) Body, High pressure cover, com		·
14	cover Cowl and Joint support ring - Ductile cast not of group		
	accedulacces as per DIN 1693 or GR SG-400/12 as per 15 1005, Hoat of built of	ļ	and the second sec
•	tuo hall a list 204 stainless Steel. Seat ring & Gasket - EPDIVI/NBR, Fir Office of the	1	
	if is a plug - Bronzo / SS Bush Bronze - Flanges as per 15/ BS, Dimed as per 15.1300.		
		·	
	List Line water applied with minimum thickness of 250 micron applied on body of	i i	
	in tracide and outside fasteners - CS/ Galvanised steel, Outlet of big office that		
	is a server to provent Tamper of float. With DI metal sealed Dy, Northening		
	Ly styles values of per (IS: 14846 amended up to date) PN 1.0 fatings values		
1. A. A.	including all material, labour, testing and commissioning as per Technical	l	1
1.11	Specifications and as per direction of Engineer in charge.	2	
1.1	Note: Rates are exclusive of connecting tee, pipe piece and earth work.		· · ·
	Note: Rates are exclusive of connecting test part		
6.13.1	Class PN 1.6		15020.00
6.13.1.1		Each	15030.00 15120.00
	50 mm dia	Each	19959.00
	80 mm dia	Each	26848.00
	100 mm dia	Each	46105.00
	150 mm dia	Each	61041.00
		Each	01041.00
6.14	in position and Joining might fixing in position and Joining in pipe and		
0.2.1	to stige Air Bologco Volve Kinetic type with single chamber housed bound		
	in and have 2 functions large Air exhaust, small Air venuing and runge and	1	1
	the during vocuum of pipeline of approved makes of following pressure runne	1	
	I take and as nor following specifications: Governing statualu	1	
	a turned bonnet of Ductile cast iron of grade GGG40/GGG50 as per Div 1050 0.	4 · ·	
	and a source sources the second statement of the statemen	· · ·	
• •	a contract convine Drilled as ner 15:1538, Electrostatic Epoxy i official	1 ·	
•	Law / E. J. Branded Enoug (Non-Toyic & stutable for drinking water) coated the	· ·	
	this we this was of 250 micron annied on body & cover inside and outside	-	- -
5. 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 -	- critical united steel Outlet of hip office will have a screen to proton	-	
	Tamper of float, Big orifice size should be equal or larger than the inter height	''''''''''''''''''''''''''''''''''''''	
	LI ANALA ANALA (51) 1. VAIVE INCIDUNE ON HOUSE AND	<b>11</b>	
·	testing and commissioning as per Technical Specifications and as per direction c		
n an	r - to - an in oborgo		
	Note: Rates are exclusive of connecting tee, pipe piece and earth work.		
		<u> </u>	-
6.14.	1 Class PN 1.6	Each	18973.0
	.1 50 mm dia	Each	24094.0
	.2 80 mm dià	Each	31723.0
	1.3 100 mm dia	Each	51349.
	1.4 150 mm dia	Each	66525.
	1.5 200 mm dia	Laun	

Providing, lowering, aligning & fixing in position DI D/F Plunger Type Flow Control         Valve of approved make of following Pressure rating & dia complete and of         following specifications: Body- Ductle cast iron of grade GG640/GG630 as per         DIN 1693 or EN-JS 1030, Plunger/ Piston - Stainless steel ASI: 304/ Gr 1.4301,         Piston Guides- Bronze Welded Overlay / SS shaf/Candiless steel         ASI: 410/ Gr 1.4021. Body Seat Ring- Stainless steel ASI: 316/304/ Bronze IS:318-         LTB2, Scall (-O ring / Quadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Quadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N NBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N IBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N IBR, Bearing Bush - Bronze IS:318-         LTB2, Scall (-O ring / Cuadr ring)- EPOM/N IBR, Bearing Bush - Bronze IS:318-         Leach Stain (-Stainles)       Scall (-Stainles)         Acting and Communication Scall (-Botz PDM)       Ford (-Botz PDM)         Actin (-Stainles)       Scall (-Botz PDM)         Clasti: 1000mm dia       Each 3388200. </th <th>5. No.</th> <th>Description</th> <th>Unit</th> <th>Amended Rate (Rs.)</th>	5. No.	Description	Unit	Amended Rate (Rs.)
Value of approved make of following Pressure rating & dia complete and or following specifications: Body- Ducitic cast inon of grade GG640(GG63 as per DN1 1693 or EN-IS 1030, Plunger/ Piston - Stanless steel AISI- 316/304/ Bronze IS:318- LTB2, Steel (JO 6r 1.4021 Body Sear Ring: Stanless steel AISI- 316/304/ Bronze IS:318- LTB2, Steel Cylined / Strainer / Diffuser - AISI- 407 034A/NLT 6015r - SS, Face to Face- as per ANSI B 16.1/ EN SSB-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-21. Intertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EU including jointing 8. jointing material, labour, testing and commissioning as, per Technical Specification & as per direction of Engineer-in-charge. Note: Rates are exclusive of tail plece/ dismantling joints and earth work.           6.15.1         Plunger Type Flow Control Value         Each         384820.0 515.1.1           6.15.1.2         Jomm dia 515.1.3         Each         384820.0 515.1.3           6.15.1.2         Jomm dia 515.1.4         Each         43113.2 515.10           6.15.1.2         Jomm dia 515.1.1         Each         534820.0 515.1.3           6.15.1.2         Jomm dia 515.1.1         Each         534820.0 515.1.3           6.15.1         Bomm dia 515.10         Each         534820.0 515.1.3           6.15.1         Bomm dia 515.10         Each         534820.0 515.1.3           6.15.1				
following specifications: Body- Ductile cast iron of grade GG640/GG630 as per         DN 1639 of EN/S 1003, Plunger/ Piston - Stainless steel AIS- 304/G for 1.4301.         Piston Guides- Bronze Weided Overlay / SS Shaft/Crank/Spindle- Stainless steel         AIS- 410/ Gr 1.4021 Body Seat Ring- Stainless steel AIS- 304/G for 1.4301.         TB2, Stotted cylinder / Strainer / Diffuser - AIS- 420/ 304, Nucr. Boits - SS, Face to         Face- as per ANSI B 16.1 (EM SSE1 and Flange ends should be as per ANSI B 16.5.         Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM fism thick         Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for         drinking water) cated with minimum thickness of 250 micron applied both inside         and outside. Suitable support structure as per directions of EL including jointing         & jointing material, abour, testing and commissioning as per Technical         Specification 8 as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail place/ dismantling joints and earth work.         515.1.1       200mm dia         515.1.2       200mm dia         515.1.4       50mm dia         515.1.5       200mm dia         515.1.6       250mm dia         515.1.6       250mm dia         515.1.7       260mm dia         515.1.8       200mm dia         515.1.10       650744. <td>. Į₽</td> <td>roviding, lowering, aligning of following, Prossure rating &amp; dia complete and of</td> <td></td> <td></td>	. Į₽	roviding, lowering, aligning of following, Prossure rating & dia complete and of		
DNI 1633 or EN-JS 1030, Plunger/ Piston - Stainless steel AIS- 304/ Gr 1.401.         Piston Guides- Bronze Weided Overly / SS Shaf/Canal/Sjonide - Stainless steel         AISI- 410/ Gr 1.4021 Body Seat Ring- Stainless steel AIS- 316/304/ Bronze IS:318- ITR2, Seal ( O - ring / Quad ring)- EPDM/ NSR, Bearing Bush - Bronze IS:318- ITR2, Stoted cylinder / Strainer / Diffuser - AISI- 420/ 304, Nut, Bolts - SS, Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Crass 150 and Class 300 ( EN-1092-2. Insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 720 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-in- Charge.         Note: Rates are exclusive of tail plcce/ dismantling joints and earth work.         6.15.1       Plunger Type Flow Control Valve         15.1.2       Borm dia         15.1.3       Borm dia         15.1.4       Stomm dia         15.1.5       200mm dia         15.1.5       250mm dia         15.1.6       Each         15.1.7       30mm dia         15.1.8       Stomm dia         15.1.9       Each         15.1.10       Stomm dia         15.1.2       Each         15.1.3       Stomm dia         15.1.	- j <b>v</b>	/alve of approved make or following Pressure rating of the complete and of		
Picton Guides       Bronze Welded Overlay / SS Shaft/Crank/Spindle - Stainess stell         AIS- 410/05 GT J4021 Body Seat Ring-Stainless steel AIS-316/304 Pinorae IS-318- LTB2 / Seat ( O - ring / Quad ring)- EPOM/ NBR, Bearing Bush - Bronze IS-318- LTB2/Slotted cylinder / Strainer / Diffuser- AISI-420/304,Nut-Bolts - SS, Face to Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPOM 6mm thick Electrostitic Epony Powder(EP-) / Fusion Bonded Epony (Non-Tock & suitable for drinking water) coated with minimum thickness of 250 micron applied both Inside and outside . Suitable support structure as per directions of EIC including jointing 8 jointing material, albour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.       Each       338820.0         15.1.1       Borm dia       Each       434067.0         15.1.2       100mm dia       Each       647804.4         15.1.2       100mm dia       Each       647804.1         15.1.2       200mm dia       Each       657791.1         15.1.6       200mm dia       Each       657791.1         15.1.7       200mm dia       Each       10255791.1         15.1.8       30mm dia       Each       649152.1         15.1.7       200mm dia       Each       1025563         15.1.1.8       200mm dia       Each       10255438.1         15.1.1.1	f	ollowing specifications: Body- Ductile cast iron of grade GGG40/GGG50 as per		
Picton Guides       Bronze Welded Overlay / SS Shaft/Crank/Spindle - Stainess stell         AIS- 410/05 GT J4021 Body Seat Ring-Stainless steel AIS-316/304 Pinorae IS-318- LTB2 / Seat ( O - ring / Quad ring)- EPOM/ NBR, Bearing Bush - Bronze IS-318- LTB2/Slotted cylinder / Strainer / Diffuser- AISI-420/304,Nut-Bolts - SS, Face to Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPOM 6mm thick Electrostitic Epony Powder(EP-) / Fusion Bonded Epony (Non-Tock & suitable for drinking water) coated with minimum thickness of 250 micron applied both Inside and outside . Suitable support structure as per directions of EIC including jointing 8 jointing material, albour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.       Each       338820.0         15.1.1       Borm dia       Each       434067.0         15.1.2       100mm dia       Each       647804.4         15.1.2       100mm dia       Each       647804.1         15.1.2       200mm dia       Each       657791.1         15.1.6       200mm dia       Each       657791.1         15.1.7       200mm dia       Each       10255791.1         15.1.8       30mm dia       Each       649152.1         15.1.7       200mm dia       Each       1025563         15.1.1.8       200mm dia       Each       10255438.1         15.1.1.1	· [	DIN 1693 or EN-JS 1030, Plunger/ Piston - Stainless steel AISI- 304/ Gr 1.4301,		r
AlSI- 410/ Gr 1. 4021 Body Seat Ring- Stainless steel AISI- 316/304/ Bronze IS:318- LTB2_Seat (0 - ring / Quad ring)- EDM/ NBR, Bearing Bush - Bronze IS:318- LTB2_Slotted cylinder / Strainer / Diffuser- AISI- 420/ 304, Nut- Bolts - SS, Face to Face- as per ANSI B 16.1/ EN SSB-1 and Flange ends should be as per ANSI B-16.5 Class ISO and Class 300/ EN-1092-2. Insertion rubber of black EPDM form thick Effectrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineeri-in- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 5.15.1 Plunger Type Flow Control Valve 1.5.1.1 250 mm dia 1.5.1.1 250 mm dia 1.5.1.1 250 mm dia 1.5.1.1 250 mm dia 1.5.1.2 200 mm dia 1.5.1.2 200 mm dia 1.5.1.5 200 mm dia 1.5.1.5 200 mm dia 1.5.1.5 200 mm dia 1.5.1.5 200 mm dia 1.5.1.6 250 mm dia 1.5.1.6 250 mm dia 1.5.1.1 250 mm dia 1.5.2.1 250 mm dia 1.5.3.1 250 mm dia 1.5.3.1 250 mm dia 1.5.3.1 250 mm dia 1.5.3.1 250 mm dia 1.5.4 100 mm dia 1.5.5 400 mm	1	Piston Guides- Bronze Welded Overlay / SS Shaft/Crank/Spindle- Stainless steel		
(T12, Seal ( D. ring / Quad ring)- EPOM/ NBR, Bearing Bush - Bronze 19:318- ITB2,Slotted cylinder / Strainer / Difuser - AISI-40/304,Nut- Boits - SS, Face to S.15         Face: as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5.         Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking materi) coated with minimum thickness of 250 micron applied both Inside and outside. Suitable support structure as per directions of EIC including jointing 8 jointing material, labour, testing and commissioning as, per Technical Specification & as per direction of Engineeri-n- Charge. Note: Rates are exclusive of tail picce/ dismantling joints and earth work.         5.15.1       B0 mm dia       Each       338820.0         15.1.1       80 mm dia       Each       431132.1         15.1.2       Jomm dia       Each       43132.1         15.1.3       125 mm dia       Each       457109.1         15.1.4       80 mm dia       Each       655791.1         15.1.5       200mm dia       Each       80472.1         15.1.7       300mm dia       Each       1028656         15.1.8       350mm dia       Each       1355418         15.1.9       400mm dia       Each       1355418         15.1.10       450mm dia       Each       1355438         15.1.11       500mm dia       <		AISI- 410/ Gr 1 4021 Body Seat Ring- Stainless steel AISI- 316/304/ Bronze IS:318-		
1122_Stotted cylinder / Strainer / Diffuser - AlSi - 420/ 304_Nut- Bolts - SS, Pace to         6.15       Face- as per ANSI B 16.1 / EN 558-1 and Flange end St should be as per ANSI B-16.5.         Class 150 and Class 300/ EN-1092-2: Insertion rubber of black EPDM 6mm thick         Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside . Suitable support structure as per direction of ElC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-in-Charge.         Note: Rates are exclusive of tail picce/ dismantling joints and earth work.         5.15.1       Punger Type Flow Control Valve         5.15.2       Domm dia       Each       388220/         15.1.3       125 mm dia       Each       457804/         15.1.4       Somm dia       Each       457804/         15.1.5       300mm dia       Each       467804/         15.1.6       250mm dia       Each       467804/         15.1.7       300mm dia       Each       467804/         15.1.8       350mm dia       Each       1088666         15.1.8       350mm dia       Each       1088666         15.1.8       350mm dia       Each       1258488         15.1.14       600mm dia       Each	i ľ	Top Serie ( O ving / Ound ving) FPDM/ NBR Bearing Bush - Bronze (\$:318-		
6.15       Face- as per ANSI B 16.1/ EN S58-1 and Flange ends should be as per ANSI B 16.5.         1       Class 150 and Class 300/ EN 1092-2. Insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EL Including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineerin- Charge.         5.15.1       Plunger Type Flow Control Valve       Each       338820.6         5.15.1       Bom dia       Each       338820.6         15.1.2       100mm dia       Each       43132.7         15.1.3       100mm dia       Each       43132.7         15.1.4       100mm dia       Each       45133.7         15.1.5       200mm dia       Each       655719.1         15.1.6       200mm dia       Each       102549.1         15.1.7       300mm dia       Each       1025580.1         15.1.13       300mm dia       Each       1025581.1         15.1.14       300mm dia       Each       125541.3         15.1.13       200mm dia       Each       125541.3         15.1.14       300mm dia       Each       3255900         15.1.15       0400mm dia	Į I	LIBZ Seal ( U. ring / Quad ring) EPDINI Work, Bearing Duan E. S. Face to	·	
class 150 and Class 300/ [EN-109.] / Eusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both Inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-in- Charge.         Note: Rates are exclusive of tail picce/ dismantling joints and earth work.         6.15.1       Plunger Type Flow Control Valve       Each       388220.         15.1.1       80 mm dia       Each       384207.         15.1.2       100mm dia       Each       384207.         15.1.3       25 mm dia       Each       4678204.         15.1.4       150mm dia       Each       4678204.         15.1.5       300mm dia       Each       4678204.         15.1.6       250mm dia       Each       4678204.         15.1.7       300mm dia       Each       4678204.         15.1.6       250mm dia       Each       8604745.         15.1.7       300mm dia       Each       1084664.         15.1.8       108406       1122558.       1518.         15.1.1       600mm dia       Each       10945455.         15.1.1.2       600mm dia       Each       1594565.         15.1.1.1       600mm dia	۱ ا	LTB2, Slotted cylinder / Strainer / Diffuser- Alsi- 420/ 504, Nut- Bolts - 55, Face to		
class 150 and class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm trick         Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both Inside and outside. Suitable support structure as per directions of EIC including jointing         & jointig material, labour, testing and commissioning as. per Technical Specification & as per direction of Engineer-in- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         5.15.1       Plunger Type Flow Control Valve         15.1.1       80 mm dia         15.1.2       100mm dia         15.1.3       125 mm dia         15.1.4       25 mm dia         15.1.5       250mm dia         15.1.6       250mm dia         15.1.7       300mm dia         15.1.8       57109.1         15.1.1       300mm dia         15.1.2       100mm dia         15.1.3       125 mm dia         15.1.4       250mm dia         15.1.5       300mm dia         15.1.6       250mm dia         15.1.1       200mm dia         15.1.1       540mm dia         15.1.2       540mm dia         15.1.3       540mm dia         15.1.1       551100         15.1.1	6.15	Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-10.5,		
Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable For         drinking water) coated with minimum thickness of 520 micron applied both inside         and outside - Suitable support structure as per directions of EIC including jointing         & Jointing material, labour, testing and commissioning as per Technical         Specification & as per direction of Engineer-In-Charge.         Note: Rates are exclusive of tail plece/ dismantling joints and earth work.         6.15.1       Binm dia         15.1.2       100mm dia         15.1.3       125 mm dia         15.1.4       150mm dia         15.1.5       125 mm dia         15.1.6       125 mm dia         15.1.7       300mm dia         15.1.8       125 mm dia         15.1.4       150mm dia         15.1.6       250mm dia         15.1.7       300mm dia         15.1.8       350mm dia         15.1.9       6ach         15.1.12       640mm dia         15.1.13       150mm dia <td></td> <td>Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm thick</td> <td></td> <td>and the second</td>		Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm thick		and the second
drinking water) coated with minimum thickness of 250 micron applied both inside and outside . Suitable support structure as per directions of E. Ichulding jointing, 8. jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-in- Charge. Note: Rates are exclusive of tail plece/ dismantling joints and earth work. 6.15.1 Plunger Type Flow Control Valve . Each 338020.0 .15.1.1 80 mm dia . Each 334067.1 .15.1.2 100mm dia . Each 431132.7 .15.1.3 125 mm dia . Each 437132. .15.1.4 150mm dia . Each 457109.1 .15.1.5 200mm dia . Each 657991. .15.1.5 200mm dia . Each 657991. .15.1.6 200mm dia . Each 800474.1 .15.1.8 350mm dia . Each 800474.1 .15.1.8 350mm dia . Each 800474.1 .15.1.8 350mm dia . Each 800474.1 .15.1.8 350mm dia . Each 1088666 .15.1.13 200mm dia . Each		Flectrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for	•	
and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-in- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 6.15.1.1 Plunger Type Flow Control Valve 6.15.1.3 125 mm dia 6.15.1.3 125 mm dia 6.15.1.4 150 mm dia 6.15.1.3 125 mm dia 6.15.1.2 100mm dia 6.15.1.10 450mm dia 6.16 Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure 8.16.1 Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure 8.16.1 Providing, lowering, aligning and fixing - 0.10 to the cast iron of grade 6.16 Providing, lowering aligning and fixing - 0.10 to the cast iron of grade 6.16 Providing, lowering aligning and fixing - 0.10 to the cast iron of grade 6.16 Given Dia 0.10 to the cast stanless steel, AISI-316/40 rune. 8.15.1.3 100mm dia 6.16 Providing, lowering aligning and fixing - 0.20 to the cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specifications: Body & Bonnet - Ductile cast iron of grade 6.16 Given Specification & Cast stanless Steel, AISI-316/410, 7.16 raised, replaceable inline & onste Spring & Bearing bush - Stanless Steel, AISI-316/4	[	drinking water) coated with minimum thickness of 250 micron applied both inside	1.5	
§. jointing material, labour, testing and commissioning as per lechnical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismanting joints and earth work.         6.15.1       Plunger Type Flow Control Valve         15.1.1       B0 mm dia       Each       338820.0         15.1.2       100mm dia       Each       334820.0         15.1.3       100mm dia       Each       344067.0         15.1.4       100mm dia       Each       447804.1         15.1.5       200mm dia       Each       655791.0         15.1.6       250mm dia       Each       650791.1         15.1.5       200mm dia       Each       650791.1         15.1.6       250mm dia       Each       650791.1         15.1.7       300mm dia       Each       650791.1         15.1.3       400mm dia       Each       1088666         15.1.3       400mm dia       Each       1088666         15.1.13       500mm dia       Each       1358418         15.1.14       800mm dia       Each       1358418         15.1.13       700mm dia       Each       2355900         15.1.14       800mm dia       Each       3255900         15.1.1		unning water) coated with mathematic tructure as per directions of FIC including jointing		
Specification & as per direction of Engineer-In- Charge.       Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.15.1       Plunger Type Flow Control Valve       Each       338820.0.         15.1.3       125 mm dia       Each       338420.0.         15.3.1       125 mm dia       Each       43113.0.         15.3.1       125 mm dia       Each       43113.0.         15.3.1       125 mm dia       Each       457109.0.         15.3.5       200mm dia       Each       655711.         15.3.6       250mm dia       Each       655719.1.         15.3.6       250mm dia       Each       804152.         15.3.1       200mm dia       Each       804152.         15.3.1       400mm dia       Each       1088666         15.3.1.1       500mm dia       Each       1172558.         15.3.1.1       500mm dia       Each       1254428         15.3.1.1       500mm dia       Each       4234729         15.3.1.1       500mm dia       Each       557130.         15.3.1.1       500mm dia       Each       5977677         15.3.1.1       500mm dia       Each       5977677         15.3.1.5       900mm dia		and outside . Suitable support structure as per uncertoins of ero indeed of the		
Note: Rates are exclusive of tail piece/ dismantiling joints and earth work.           6.15.1         Plunger Type Flow Control Valve         15.1.1           15.1.1         80 mm dia         Each         388020.0           15.1.2         100mm dia         Each         481132.0           15.1.3         150mm dia         Each         481132.0           15.1.4         150mm dia         Each         467804.1           15.1.5         200mm dia         Each         657710.9           15.1.5         200mm dia         Each         860474.1           15.1.6         250mm dia         Each         80474.1           15.1.7         300mm dia         Each         80474.1           15.1.8         350mm dia         Each         1958428           15.1.1         400mm dia         Each         1958428           15.1.1         500mm dia         Each         1958428           15.1.1         500mm dia         Each         1958428           15.1.14         800mm dia         Each         1958428           15.1.15         700mm dia         Each         255900           15.1.14         800mm dia         Each         5871077           6.16         Providing		& jointing material, labour, testing and commissioning as per recrimear		
Note: Rates are exclusive of tail piece/ dismantling joints and earth work.           6.15.1         Plunger Type Flow Control Valve         1           1.15.1.1         80 mm dia         Each         388020.0           1.15.1.2         100mm dia         Each         384027.0           1.15.1.3         125 mm dia         Each         441132.0           1.15.1.4         150mm dia         Each         445123.0           1.15.1.4         150mm dia         Each         657710.1           1.15.1.4         150mm dia         Each         657710.1           1.15.1.5         200mm dia         Each         860474.1           1.15.1.4         130mm dia         Each         860474.1           1.15.1.4         300mm dia         Each         1088666           1.15.1.4         400mm dia         Each         1172558           1.5.1.14         400mm dia         Each         1158418           1.5.1.15         100mm dia         Each         1255402           1.5.1.14         800mm dia         Each         255900           1.5.1.15         100mm dia         Each         255910           1.5.1.14         1000mm dia         Each         2557900           1.5.1.1	· · ·	Specification & as per direction of Engineer-In- Charge.		
6.15.1       Plunger Type Flow Control Valve		Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		
115.1.1       80 mm dia       Each       3388207.         1.15.1.2       125 mm dia       Each       431132.0         1.15.1.3       125 mm dia       Each       447103.0         1.15.1.4       150mm dia       Each       457109.0         1.15.1.5       200mm dia       Each       655791.0         1.15.1.6       250mm dia       Each       655791.0         1.15.1.7       300mm dia       Each       86047.4         1.15.1.8       350mm dia       Each       1088666         1.15.1.4       500mm dia       Each       1088666         1.15.1.4       500mm dia       Each       1178588         1.15.1.12       500mm dia       Each       1178588         1.15.1.13       500mm dia       Each       11954565         1.15.1.14       800mm dia       Each       11954565         1.15.1.15       900mm dia       Each       11954565         1.15.1.14       800mm dia       Each       11954565         1.15.1.15       900mm dia       Each       5977677         1.15.1.14       800mm dia       Each       5977677         1.15.1.14       800mm dia       Each       5977677 <t< td=""><td></td><td></td><td></td><td>1 1</td></t<>				1 1
15.1.1       80 mm dia       Each       3388207.         15.1.2       125 mm dia       Each       4431132.0         15.1.3       125 mm dia       Each       4431132.0         15.1.4       150mm dia       Each       467804.0         15.1.5       200mm dia       Each       655710.9         15.1.6       250mm dia       Each       655791.4         15.1.7       300mm dia       Each       86047.4         15.1.8       350mm dia       Each       804152.4         15.1.3       400mm dia       Each       1088666         15.1.4       800mm dia       Each       1172588         15.1.13       500mm dia       Each       1172588         15.1.14       800mm dia       Each       1172588         15.1.15       900mm dia       Each       11954565         15.1.15       900mm dia       Each       15547677         15.1.15       900mm dia       Each       581309         15.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure rating & dia complete and of following pressure rating & dia complete and of following specifications: Body & Bomte - Ductic cats iron of grade codG		Di Tura Maria Valua		
15.1.2       100mm dia       Each       431132.0         15.1.3       125 mm dia       Each       431132.0         15.1.4       150mm dia       Each       457109.0         15.1.5       200mm dia       Each       657791.0         15.1.6       250mm dia       Each       655791.0         15.1.7       300mm dia       Each       860474.0         15.1.8       350mm dia       Each       860474.0         15.1.8       350mm dia       Each       1086665         15.1.10       450mm dia       Each       1172558         15.1.11       500mm dia       Each       1172558         15.1.12       600mm dia       Each       1954565         15.1.13       700mm dia       Each       1255900         15.1.13       700mm dia       Each       5851308         15.1.14       800mm dia       Each       5851708         15.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure rating & dia complete and of following precisions: Body & Bonnet - Ductile cast iron of grade GG40/GG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resillent seal disc - Flexible, non-wicking myin fabric reinforced synthetic elastomer - Buna-N / EPDM (FD / WRA			Each	338820.00
15.1.3       125 mm dia       Each       443113.1.         15.1.4       150mm dia       Each       467804.4         15.1.5       200mm dia       Each       655791.1         15.1.6       250mm dia       Each       8604152.1         15.1.7       300mm dia       Each       860474.4         15.1.8       350mm dia       Each       860474.4         15.1.8       350mm dia       Each       1088666         15.1.3       400mm dia       Each       1088666         15.1.13       500mm dia       Each       1155418         15.1.13       500mm dia       Each       155418         15.1.13       700mm dia       Each       3255900         15.1.13       700mm dia       Each       551308         15.1.13       900mm dia       Each       553108         15.1.14       800mm dia       Each       553108         15.1.15       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia complete and of following prescifications:       Body & Bonnet - Ductlie cast iron of grade GGG40/GG650 as per DIN 1693 or ASTM A 536, Diaphragm and Resilien			Each	384067.00
135.1.3       125 mm dia       Each       467804.0         135.1.4       150mm dia       Each       557109.1         135.1.5       200mm dia       Each       655791.1         135.1.6       250mm dia       Each       655791.1         135.1.7       300mm dia       Each       8604152.1         135.1.8       350mm dia       Each       1088665         135.1.9       400mm dia       Each       1172558         135.1.10       400mm dia       Each       1172558         135.1.11       500mm dia       Each       1172558         135.1.12       600mm dia       Each       1254418         135.1.13       700mm dia       Each       1255900         135.1.13       700mm dia       Each       3255900         135.1.14       800mm dia       Each       5831308         135.1.15       1000mm dia       Each       5851308         135.1.14       1000mm dia       Each       5977677         6.16       Providing, Flow Control Valve of approved make of following Pressure rating & dia complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade GG40/GG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer - B			Each	431132.00
135.1.4       150mm dia       Each       557109.1         135.1.5       200mm dia       Each       655791.1         135.1.6       250mm dia       Each       860474.1         135.1.7       300mm dia       Each       860474.1         135.1.8       350mm dia       Each       860474.1         135.1.9       400mm dia       Each       1088666.1         135.1.10       450mm dia       Each       1172558         135.1.13       500mm dia       Each       1172558.1         135.1.13       500mm dia       Each       1155418         135.1.14       800mm dia       Each       1255418         135.1.14       800mm dia       Each       1255418         135.1.14       800mm dia       Each       155418         135.1.15       900mm dia       Each       557109.1         135.1.15       1000mm dia       Each       558130         135.1.15       1000mm dia       Each       557109.1         135.1.16       1000mm dia       Each       5977677         13.1.16       1000mm dia       Each       5977677         13.1.16       1000mm dia       Each       5977677         13.1.16 <td></td> <td></td> <td></td> <td></td>				
1.15.1.5       200mm dia       Each       655791.1         1.15.1.7       300mm dia       Each       860474.1         1.15.1.8       350mm dia       Each       860474.1         1.15.1.7       300mm dia       Each       1088666         1.15.1.7       300mm dia       Each       1172558         1.11       450mm dia       Each       1172558         1.11       1500mm dia       Each       1172558         1.11       500mm dia       Each       1255418         1.11       500mm dia       Each       3255900         1.15.1.12       600mm dia       Each       535130         1.15.1.15       900mm dia       Each       5851308         1.15.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia       complete and of following specifications: Body & Bonnet - Ductile cast iron of grade         GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM       (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-304/ 316/Bronze       , Seal - EPDM / NBR, Pilot Body- Stainles Steel, AISI-304/ 316/Bronze	5.15.1.4	150mm dia		
5.15.1.6       250mm dia       Each       804152.1         5.15.1.7       300mm dia       Each       804152.1         5.15.1.8       350mm dia       Each       1088666         5.15.1.9       400mm dia       Each       1088666         15.1.10       450mm dia       Each       1172558         15.1.11       500mm dia       Each       1172558         15.1.12       600mm dia       Each       1255400         15.1.13       700mm dia       Each       1255400         15.1.14       800mm dia       Each       5851308         15.1.15       900mm dia       Each       5851308         15.1.15       900mm dia       Each       5851308         15.1.15       900mm dia       Each       5851308         15.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure Reducing / Flow Control Valve of approved make of following Pressure rating & diac - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel, AISI-316/410, AISI-316, AISI-304 / SIGGSO as per DIN 1693 or ASTM A 535, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM <tr< td=""><td>.15.1.5</td><td>200mm dia</td><td></td><td></td></tr<>	.15.1.5	200mm dia		
115.1.7       300mm dia       Each       20413.4         1.5.1.8       350mm dia       Each       860474.4         1.5.1.9       400mm dia       Each       1088666         1.5.1.0       450mm dia       Each       1172558         1.5.1.12       500mm dia       Each       1172558         1.5.1.12       600mm dia       Each       1172558         1.5.1.12       600mm dia       Each       1954555         1.5.1.13       700mm dia       Each       3255900         1.5.1.14       800mm dia       Each       4234729         1.5.1.15       900mm dia       Each       5851308         1.5.1.16       1000mm dia       Each       5851308         1.5.1.15       900mm dia       Each       5851308         1.5.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade (GG40/GG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nython fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-304, ISI-60410, raised, replaceable inline &			Each	
1.15.1.8       350mm dia       Each       80474.4.         1.15.1.9       400mm dia       Each       1088666         1.5.1.10       500mm dia       Each       1172558         1.5.1.11       500mm dia       Each       1172558         1.5.1.12       600mm dia       Each       1172558         1.5.1.13       700mm dia       Each       1954655         1.5.1.13       700mm dia       Each       3255900         1.5.1.14       800mm dia       Each       525900         1.5.1.15       900mm dia       Each       5851308         1.5.1.16       1000mm dia       Each       5851308         1.5.1.15       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Fach         Reducing / Flow Control Valve of approved make of following Pressure rating & dia       complete and of following specifications: Body & Bonnet - Ductile cast iron of grade         GG640/GG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -       Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna N / EDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-316/410, raised, replaceable inline & onsite Strine AISI-304 / CF80 Prass Tubing - Stainless Steel, AISI-316, H10, raised, replaceable inline &			Each	
5.15.1.9       400mm dia       Each       1086806         15.1.10       450mm dia       Each       1172558         15.1.11       500mm dia       Each       1172558         15.1.12       600mm dia       Each       1558418         15.1.13       700mm dia       Each       1355408         15.1.13       700mm dia       Each       423729         15.1.13       700mm dia       Each       5851308         15.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia         complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade       GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -         Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM       (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush - Stainless Steel, AISI-316/410,       raised, replaceable inline & onsite Spring & Bearing bush - Stainless Steel, AISI-316/BORD2         Joise guide, disc retainer & diaphragm washer - Stainless Steel, AISI-304/ SB/BORD2       Stainless Steel, AISI-304 / Copper ,Solenoid Valve - Stainless Steel, AISI-304/ SB/BORD2         Stainless St			Each	860474.00
15.1.10       450mm dia       Each       11/2536         15.1.11       500mm dia       Each       1558418         15.1.12       600mm dia       Each       1954565         15.1.13       700mm dia       Each       3255900         15.1.14       800mm dia       Each       4234729         15.1.15       900mm dia       Each       5851308         15.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type       Pressure         Reducing / Flow Control Valve of approved make of following Pressure rating & dia       complete and of following specifications: Body & Bonnet - Ductlic cast iron of grade         GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resillent seal disc -       Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-316/410,       raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,       raised, replaceable inline & onsite Steel, AISI-304/316/Bronze         jseal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/CF8 or Brass Tubing - Stainless       Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-11/N SSA-1 and         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300			Each	1088666.0
15.1.10       450mm dia       Each       1558418         15.1.11       500mm dia       Each       1954565         15.1.12       600mm dia       Each       3255900         15.1.13       700mm dia       Each       3255900         15.1.14       800mm dia       Each       4234729         15.1.15       900mm dia       Each       5531308         15.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia         complete and of following specifications:       Body & Bonnet - Dutile cast iron of grade       GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resillent seal disc -         Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM       (FDA / WRAS approved), Body Seat Ring - Cast stainless steel, AISI-316/410,       AiSI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,         AiSI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-304/316/Bronze       ,Seal- EPDM/NBR, Pilot Body- Stainless Steel, AISI-304/216/Bronze         , Stainless Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-304/17 kn 558-1 and       Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/EN-1092-2.         Insertion rubber of black EPDM 6mm thick Electr				1172558.0
1.11.11       500mm dia       Each       1954565         1.15.1.12       600mm dia       Each       3255900         1.15.1.13       700mm dia       Each       4234729         1.5.1.14       800mm dia       Each       4234729         1.5.1.15       900mm dia       Each       5851308         1.5.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia         complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade       GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resillent seal disc -         Flexible, non-wicking nylon fabric reinforced synthetic elastomer - Buan-N / EPDM       (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316/410,       raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316/410,         raised, replaceable inline & Stainless Steel, AISI-304/ 316/Bronze       , Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/ CFB or Brass Tubing - Stainless         Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-316 / Thortting plug -       Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/EN SSA-1 and         Flange ends shoul	.15.1.10	450mm dia		
115.1.12       600mm dia       Each       11934303         115.1.13       700mm dia       Each       3255900         115.1.14       800mm dia       Each       4234723         115.1.15       900mm dia       Each       4234723         115.1.15       900mm dia       Each       5851308         115.1.15       900mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia         Complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade.       GG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -         Flexible, non-wicking nyion fabric reinforced synthetic elastomer -Buna-N / EPDM       (FDA / WRAS approved), Body Seat Ring - Cast stainless steel, AISI-316410,         AISI- 316, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316       , Disc guide, disc retainer & diaphragm washer - Stainless Steel, AISI-316         , Disc guide, disc retainer & diaphragm steel AISI-304/CF8 or Brass Tubing - Stainless       Steel, AISI-304 / Copper , Solenoid Valve - Stainless Steel, AISI-316         , Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-316       Thorthing plug - Stainless Steel, AISI-304/CF8 or Brass Tubing - Stainless         Steel, AISI-304 / Copper , Solenoid Valve - Stainless Steel, AISI-316	.15.1.11	500mm dia		
115.1.13       700mm dia       Each       9239300         115.1.14       800mm dia       Each       4234729         115.1.15       900mm dia       Each       5851303         115.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia       complete and of following specifications: Body & Bonnet - Ductile cast iron of grade         GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -       Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M /       AISI-316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316       Joic guide, disc retainer & diaphragm washer - Stainless Steel, AISI-304/316/Bronze,         Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-304, Topper ,Solenoid Valve- Stainless Steel, AISI-304 / EN Stainless Steel, AISI-304, F8 or Brass Tubing - Stainless         Steel, AISI-304 / Copper ,Solenoid Valve- Staince pace aper ANSI B 16.1/ EN 558-1 and         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2.         insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion         Bonded Epoxy (N				the second se
115.1.14       800mm dia       Each       54351308         5.15.1.15       900mm dia       Each       5851308         5.15.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia       complete and of following specifications: Body & Bonnet - Ductile cast iron of grade         GGG40/GG650 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -       Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASIS-316/410,       raised, replaceable inline & onsite String & Bearing bush- Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316/410,       raised, replaceable inline & onsite Steil, AISI-304/208 (FBO raise)         Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug -       Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug -         Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug -       Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-304 / EPO / Fusion         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum       thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, la			Each	
5.15.1.15       900mm dia       Each       551300         5.15.1.16       1000mm dia       Each       5977677         6.16       Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure Reducing / Flow Control Valve of approved make of following Pressure rating & dia complete and of following specifications: Body & Bonnet - Ductile cast iron of grade GG640/GG550 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M / AISI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-304/ 16/Bronze "Seal- EPDM/ NBR, Pilot Body-Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-304/ 16/Bronze "Seal- EPDM/ NBR, Pilot Body-Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-304/ EN-SS-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM Gmm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suifable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pliot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves       Energe Valves			Each	4234729.0
5.15.1.16       1000mm dia       13977077         6.16       Providing, lowering, aligning and fixing in position Di D/F Diaphragm type Pressure       Reducing / Flow Control Valve of approved make of following Pressure rating & dia         complete and of following specifications:       Body & Bonnet - Ductile cast iron of grade         GG640/GG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc -         Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M /         AISI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-304 / 16/Bronze         ,Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless         Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-305, Disc guide, disc retainer & diaphragm vasher - Stainless Steel, AISI-304/ EPDM         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2.         insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum         thickness of 250 micron applied both inside and outside. Suifable support structure as         per directions of EIC including jointing & jointing material, labour,			Each	5851308.0
<ul> <li>6.16 Providing, lowering, aligning and fixing in position DI D/F Diaphragm type Pressure rating &amp; dia complete and of following specifications: Body &amp; Bonnet - Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M / AISI- 316, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Steel, AISI-304/ 316/Bronze, Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/ 216/Bronze Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316, Throttling plug - Stainless Steel, AISI-304, AC poper ,Solenoid Valve- Stainless Steel, AISI-304/ Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM form thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>6.16.1 Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves</li> </ul>			Each	5977677.0
Reducing / Flow Control Valve of approved make of following Pressure rating & dial complete and of following specifications: Body & Bonnet - Ductile cast iron of grade GG40/GG650 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M / AISI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/Bronze, Joic guide, disc retainer & diaphragm washer - Stainless Steel, AISI-304/ 316/Bronze, Seal- EPDM / NBR, Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug - Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. Insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside, Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.	5.15.1.16	1000mm dia	s	-
<ul> <li>complete and of following specifications: Body &amp; Bonnet - Ductile Cast Iron of gradel GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel ASTM - A 351 GR. CF8M / AISI- 316, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-316/410, plic guide, disc retainer &amp; diaphragm washer - Stainless Steel, AISI-304/ 316/Bronze ,Seal- EPDM/ NBR ,Pilot Body-Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug - Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> </ul>	6.16	Providing, lowering, aligning and fixing in position DI D/F Diapinagin type Pressure		
<ul> <li>complete and of following specifications: Body &amp; Bonnet - Ductile Cast Iron of gradel GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient seal disc - Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM (FDA / WRAS approved), Body Seat Ring - Cast stainless Steel ASTM - A 351 GR. CF8M / AISI- 316, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-316/410, plic guide, disc retainer &amp; diaphragm washer - Stainless Steel, AISI-304/ 316/Bronze ,Seal- EPDM/ NBR ,Pilot Body-Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug - Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> </ul>	1.11	Reducing / Flow Control Valve of approved make of following Pressure rating & un	*  ·	and the second
GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient sear disc -         Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPDM         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M /         AISI- 316, raised, replaceable inline & onsite String & Bearing bush- Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316         ,Disc guide, disc retainer & diaphragm washer - Stainless Steel, AISI-304/316/Bronze         ,Seal- EPDM/ NBR ,Pilot Body- Stainless Steel, AISI-304/CF8 or Brass Tubing - Stainless         Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug -         Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/EN 558-1 and         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2.         insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /*Fusion         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum         thickness of 250 micron applied both inside and outside. Suitable support structure as         per directions of EIC including jointing & jointing material, labour, testing and         commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work. <td< td=""><td></td><td>complete and of following specifications: Body &amp; Bonnet - Ductile cast iron of grad</td><td>=</td><td></td></td<>		complete and of following specifications: Body & Bonnet - Ductile cast iron of grad	=	
Flexible, non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / EPON         (FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASTM- A 351 GR. CF8M /         AISI- 316, raised, replaceable inline & onsite Stem - Stainless Steel, AISI-316/410,         raised, replaceable inline & onsite Spring & Bearing bush- Stainless Steel, AISI-316         , Disc guide, disc retainer & diaphragm washer - Stainless Steel, AISI-304/316/Bronze         , Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/CF8 or Brass Tubing - Stainless         Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316, Throttling plug -         Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/EN 558-1 and         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/EN-1092-2.         insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum         thickness of 250 micron applied both inside and outside. Suifable support structure as         per directions of EIC including jointing & jointing material, labour, testing and         commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		GGG40/GGG50 as per DIN 1693 or ASTM A 536, Diaphragm and Resilient sear disc.	-	
<ul> <li>(FDA / WRAS approved), Body Seat Ring - Cast stainless steel ASIM- A 351 GR. Crown / AISI- 316, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-304/ 316/Bronze ,Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug - Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /<sup>a</sup>Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>6.16.1 Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves</li> </ul>		stavible non-wicking nylon fabric reinforced synthetic elastomer -Buna-N / CPUN	η.	
<ul> <li>AISI- 316, raised, replaceable inline &amp; onsite Stem - Stainless Steel, AISI-316/410, raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-304/316/Bronze, Joisc guide, disc retainer &amp; diaphragm washer - Stainless Steel, AISI-304/316/Bronze, Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-316 , Throttling plug - Stainless Steel, AISI-304, Nut-Bolts - SS Face to Face- as per ANSI B 16.1/EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In-Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>6.16.1 Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves</li> </ul>		(HIDAG AND	/	
<ul> <li>raised, replaceable inline &amp; onsite Spring &amp; Bearing bush- Stainless Steel, AISI-316</li> <li>Disc guide, disc retainer &amp; diaphragm washer - Stainless Steel, AISI-304/ 316/Bronze</li> <li>Seal- EPDM/ NBR, Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless</li> <li>Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug -</li> <li>Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and</li> <li>Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2.</li> <li>insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion</li> <li>Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum</li> <li>thickness of 250 micron applied both inside and outside. Suitable support structure as</li> <li>per directions of EIC including jointing &amp; jointing material, labour, testing and</li> <li>commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge.</li> <li>Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> </ul>	1. A.	(FDA / WKAD approveu), budy seat hing cast staineds steel as Steel AlSI-316/410	),1 · · ·	
<ul> <li>Alson and a state of the state of t</li></ul>	100	AISI- 316, raised, replaceable mille & onsite Stell - Stanless Steel AISI-31	6	
<ul> <li>Alson and a state of the state of t</li></ul>		raised, replaceable inline & onsite Spring & Bearing bush- stamless steel, Alshort		
<ul> <li>Seal- EPDM/ NBR ,Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless Steel, AISI-304 / Copper ,Solenoid Valve- Stainless Steel, AISI-316 ,Throttling plug - Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic &amp; suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing &amp; jointing material, labour, testing and commissioning as per Technical Specification &amp; as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.</li> <li>6.16.1 Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves</li> </ul>		Disc guide disc retainer & diaphragm washer - Stainless Steel, AISI-304/ 510/BI012		
Steel, AISI-304 / Copper , Solenoid Valve- Stainless Steel, AISI-316 , Infortung plug -         Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 558-1 and         Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2.         insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum         thickness of 250 micron applied both inside and outside. Suitable support structure as         per directions of EIC including jointing & jointing material, labour, testing and         commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves	·	Scale FPDM/NBR Pilot Body- Stainless Steel, AISI-304/ CF8 or Brass Tubing - Stainless	·>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Stainless Steel, AISI-304, Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 536-1 and Flange ends should be as per ANSI B-16.5, Class 150 and Class 300/ EN-1092-2. insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) /Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		Istaal AISL204 / Conner Solenoid Valve- Stainless Steel, AISI-316 , Infotting plug		
Flange ends should be as per ANSI B-16.5, Class 150 and class 350/ EV107 27 insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EP-P) / Fusion Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In-Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		Istainlass Steel AISI-304 Nut- Bolts - SS Face to Face- as per ANSI B 16.1/ EN 556-1 and	чl	
insertion rubber of black EPDM 6mm thick Electrostatic Epoxy Powder(EPP) / Tuston         Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum         thickness of 250 micron applied both inside and outside. Suitable support structure as         per directions of EIC including jointing & jointing material, labour, testing and         commissioning as per Technical Specification & as per direction of Engineer-In-Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves	· .	Slange and should be as per ANSI B-16.5. Class 150 and Class 300/ EN-1092-	2.	
Bonded Epoxy (Non-Toxic & suitable for drinking water) coated with minimum thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In-Charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		Frange enus should be us per finds a left for the Flortrostatic Fnoxy Powder(EP-P) //Fusio	n	
thickness of 250 micron applied both inside and outside. Suitable support structure as per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		Insertion rupper of plack cruit of mitheline Licen ostance upon, anted with minimu	n  .	
per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		Bonded Epoxy (Non-Toxic & suitable for utiliking water) could with this	asl	
per directions of EIC including jointing & jointing material, labour, testing and commissioning as per Technical Specification & as per direction of Engineer-In- Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1       Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves	1.1	thickness of 250 micron applied both inside and outside. Suitable Support Structure	d	a 🕴 - Karan
commissioning as per Technical Specification & as per direction of Engineer-in-Charge.         Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1         Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		har directions of FIC including jointing & jointing material, labour, testing a		1
Note: Rates are exclusive of tail piece/ dismantling joints and earth work.         6.16.1         Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves         Image: Compatible Diaphragm Type Pressure Reducing Valves	÷	commissioning as per Technical Specification & as per direction of Engineer-in- Charge		
6.16.1 Pilot operated SCADA Compatible Diaphragm Type Pressure Reducing Valves		Note: Rates are exclusive of tail piece/ dismantling joints and earth work.		t dir
0.10.1 (Close DN 1.6)			· ·	
0.10.1 (Close DN 1.6)	n even	al de la companya de		
0.10.1 (Chao DN 1.6)		Plat energiest SCADA Compatible Diaphragm Type Pressure Reducing Valv	es	
	6.16.1			
6.16.1.1 80 mm dia		(Class PN 1.6)	Each	116695.

Valves and Appurtenances

5. No.	Description	Unit	Amended Rate (Rs.)
		Each	128608.00
	100 mm dia	Each	151689.00
	125 mm dia	Each	175198.00
	150 mm dia	Each	216569.00
	200 mm dia	Each	296523.00
	250 mm dia	Each	392768.00
	300 mm dia	Each	519664.00
	350 mm dia	Each	682369.00
	400 mm dia	Each	957345.00
	450 mm dia	Each	1325994.00
	500 mm dia	Each	1776749.00
16.1.12	600 mm dia		1770745.00
h 1h /	Diaphragm Type Flow Control Valve With Electrical Actuator suitable for scada (PN 1.6)		1 1 1 1 1 2 2 2 2
.16.2.1	80 mm dia	Each	110489.00
	100 mm dia	Each	120656.00
	125 mm dia	Each	132770.00
	150 mm dia	Each	146648.00
	200 mm dia	Each	191667.00
	250 mm dia	Each	261543.00
	300 mm dia	Each	343475.00
	350 mm dia	Each	481585.00
	400 mm dia	Each	862062.00
	450 mm dia	Each	1221275.00
	500 mm dia	Each	1535237.00
	600 mm dia	Each	2317383.0
6.17	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling Joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and		
	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN		
	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling Joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and		2150.00
	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN	Each	3150.00
6.17	<b>Dismantling/ Expansion Joints</b> Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling Joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0	Each Each	3844.00
6.17 6.17.1	<b>Dismantling/ Expansion Joints</b> Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling Joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia	Each Each Each	3844.00 4869.00
6.17 6.17.1 6.17.2	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing Cl dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia.	Each Each Each Each Each	3844.00 4869.00 6018.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia.	Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00
6.17 6.17.1 6.17.2 6.17.3	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia.	Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia. 200 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia. 200 mm dia. 250 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia. 200 mm dia. 250 mm dia. 300 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia. 250 mm dia. 300 mm dia. 350 mm dia. 400 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9	Dismantling/ Expansion Joints Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0 80 mm dia 100 mm dia. 125 mm dia. 250 mm dia. 300 mm dia. 350 mm dia. 400 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia         100 mm dia.         125 mm dia.         200 mm dia.         300 mm dia.         350 mm dia.         350 mm dia.         350 mm dia.         350 mm dia.         400 mm dia.         400 mm dia.         500 mm dia.         500 mm dia.         500 mm dia.         600 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia         100 mm dia.         125 mm dia.         200 mm dia.         200 mm dia.         300 mm dia.         90 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11 6.17.12	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia         100 mm dia.         125 mm dia.         200 mm dia.         250 mm dia.         300 mm dia.         350 mm dia.         500 mm dia.         600 mm dia.         100 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11 6.17.12	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia       100 mm dia.         125 mm dia.       200 mm dia.         200 mm dia.       300 mm dia.         350 mm dia.       350 mm dia.         900 mm dia.       500 mm dia.         900 mm dia.       90 mm dia.         910 mm dia.       90 mm dia.         920 mm dia.       90 mm dia.         930 mm dia.       90 mm dia.         9400 mm dia.       90 mm dia.         950 mm dia.       90 mm dia.         900 mm dia.       90 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11 6.17.12	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia       100 mm dia.         125 mm dia.       200 mm dia.         200 mm dia.       300 mm dia.         350 mm dia.       350 mm dia.         900 mm dia.       500 mm dia.         900 mm dia.       90 mm dia.         910 mm dia.       90 mm dia.         920 mm dia.       90 mm dia.         930 mm dia.       90 mm dia.         9400 mm dia.       90 mm dia.         950 mm dia.       90 mm dia.         900 mm dia.       90 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11 6.17.12	Dismantling/ Expansion Joints         Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0         80 mm dia         100 mm dia.         125 mm dia.         200 mm dia.         250 mm dia.         300 mm dia.         350 mm dia.         500 mm dia.         600 mm dia.         100 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00 51071.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.9 6.17.10 6.17.11 6.17.12 6.18	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         130 mm dia.           300 mm dia.         130 mm dia.           325 mm dia.         130 mm dia.           326 mm dia.         130 mm dia.           320 mm dia.         130 mm dia.           430 mm dia.         140 mm dia.           450 mm dia.         150 mm dia.           500 mm dia.         160 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 24272.00 29375.00 36222.00 51071.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia           100 mm dia.           125 mm dia.           200 mm dia.           250 mm dia.           350 mm dia.           350 mm dia.           350 mm dia.           350 mm dia.           400 mm dia.           500 mm dia.           500 mm dia.           500 mm dia.           500 mm dia.           600 mm dia.           900 m	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00 51071.00 4601.00 5522.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18 6.18.1 6.18.1	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         200 mm dia.           300 mm dia.         130 mm dia.           320 mm dia.         130 mm dia.           320 mm dia.         140 mm dia.           350 mm dia.         140 mm dia.           400 mm dia.         140 mm dia.           500 mm dia.         150 mm dia.           500 mm dia.         150 mm dia.           500 mm dia.         150 mm dia.           600 mm dia.         150 mm dia.           600 mm dia.         150 mm dia.           750 mm dia.         150 mm dia.           80 mm dia         100 mm dia.           80 mm dia         100 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00 51071.00 4601.00 5522.00 7292.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18.1 6.18.1 6.18.1 6.18.2 6.18.3	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Stuice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         200 mm dia.           300 mm dia.         250 mm dia.           300 mm dia.         350 mm dia.           300 mm dia.         360 mm dia.           300 mm dia.         360 mm dia.           300 mm dia.         360 mm dia.           350 mm dia.         360 mm dia.           350 mm dia.         360 mm dia.           350 mm dia.         360 mm dia.           400 mm dia.         360 mm dia.           500 mm dia.         360 mm dia.           500 mm dia.         360 mm dia.           600 mm dia.         360 mm dia.           600 mm dia.         360 mm dia.           700 mm dia.         360 mm dia.           80 mm dia         360 mm dia.           90 mm dia.         360 mm dia           90 mm dia.         360 mm dia           900 mm dia.         360 mm dia	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 24272.00 29375.00 36222.00 51071.00 4601.00 5522.00 7292.00 9638.00
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18 6.18.1 6.18.2 6.18.3 6.18.3 6.18.4	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         200 mm dia.           300 mm dia.         350 mm dia.           350 mm dia.         350 mm dia.           600 mm dia.         400 mm dia.           100 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           125 mm dia.         100 mm dia.           120 mm dia.         100 mm dia.           130 mm dia.         100 mm dia.           1400 mm dia.         100 mm dia.           150 mm dia.         100 mm dia.           160 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           125 mm dia.         100 mm dia.           125 mm dia.         125 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 24272.00 29375.00 36222.00 51071.00 551071.00 5522.00 7292.00 9638.00 12139.0
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18 6.18.1 6.18.2 6.18.3 6.18.4 6.18.5	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         200 mm dia.           350 mm dia.         350 mm dia.           350 mm dia.         350 mm dia.           90 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           250 mm dia.         100 mm dia.           300 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           125 mm dia.         125 mm dia.           120 mm dia.         120 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00 51071.00 551071.00 5522.00 7292.00 9638.00 12139.0 15820.0
6.17 6.17.1 6.17.2 6.17.3 6.17.4 6.17.5 6.17.6 6.17.7 6.17.8 6.17.7 6.17.8 6.17.10 6.17.10 6.17.11 6.17.12 6.18 6.18.1 6.18.2 6.18.3 6.18.4	Dismantling/ Expansion Joints           Providing, lowering, laying, aligning, fixing in position and jointing CI dismantling joint (Suitable for Sluice valves etc.) as per IS specifications complete of the following sizes including all jointing material, cost of all labour, testing and commissioning Technical Specifications and as per direction of Engineer. Class PN 1.0           80 mm dia         100 mm dia.           125 mm dia.         125 mm dia.           200 mm dia.         250 mm dia.           300 mm dia.         100 mm dia.           350 mm dia.         100 mm dia.           400 mm dia.         100 mm dia.           350 mm dia.         100 mm dia.           450 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           250 mm dia.         100 mm dia.           100 mm dia.         100 mm dia.           125 mm dia.         125 mm dia.           120 mm dia.         120 mm dia.	Each Each Each Each Each Each Each Each	3844.00 4869.00 6018.00 8817.00 12171.00 13697.00 18980.00 24272.00 29375.00 36222.00 51071.00 551071.00 4601.00 5522.00 7292.00 9638.00 12139.0

S. No.	Description	Unit	Amended Rat (Rs.)
6.18.8 3	350 mm dia.	Each	28180.00
	100 mm dia.	Each	38877.00
	150 mm dia.	Each	45523.00
	500 mm dia.	Each	51892.00
	500 mm dia.	Each	67475.00
		Each	100635.00
	700 mm dia. 800 mm dia.	Each	125773.00
		Each	167645.00
	900 mm dia	Each	187072.00
5.18.16	Providing, installation, testing and commissioning of following Stain less steel AISI	. 1	1.
6.19 F	304 Expansion beliows of 10/16 bar rating with tie rods as per technical		
	specifications and layout drawings including jointing material like nuts, bolts,		· .
1	rubber gaskets etc. complete in all respect as per technical specification and as per		
	direction of Engineer.	Each	7104.00
	80 mm dia.	Each	8767.00
ł	100 mm dia.	Each	9873.00
+	125 mm dia.	Each	12168.00
	150 mm dia.	Each	12627.00
	200 mm dia.	Each	15334.00
	250 mm dia.	Each	19029.00
	300 mm dia.	Each	22915.00
	350 mm dia.	Each	30553.00
	400 mm dia.	Each	34652.00
	450 mm dia.	Each	55510.00
	500 mm dia.	Each	67429.00
	600 mm dia.	Each	92082.00
6.19.13	700 mm dia.	Each	114855.0
6.19.14	800 mm dia.	Each	136908.0
6.19.15	900 mm dia.	Each	182530.0
6.19.16	1000 mm dia.	EdCI	102050.0
	Removing of existing CI/ DI Double flange sluice valves, non return valves, butter		
· ,	fly valves etc. in existing Distribution/ Rising Main/ Transmission Main pipe line of		
	following sizes, works include de-jointing of valve, dewatering, taking it out of the		
an thu an	pit with adequate safety arrangement at site and then refill the pit from excavated		
6.20	sand by ramming it at sides of pipe & up to ground level. Work shall be done as per	1 :	
	specification, scope of work and direction of Engineer-in-charge. All old material		
	shall be removed safely & all old material shall be deposited in Divisional Store.		
1.11	Note: Rates are exclusive of earth work and road cutting.		
		<u> </u>	470.00
6.20.1	80 mm	Each	479.00
6.20.2	100 mm	Each	520.00
6.20.3	125 mm	Each	646.00
6.20.4	150 mm	Each	688.00
6.20.5	200 mm	Each	750.00
6.20.6	250 mm	Each	959.00
6.20.7	300 mm	Each	1413.0
6.20.8	350 mm	Each	1648.0
6.20.9	400 mm	Each	1850.0
6.20.10		Each	2513.0
6.20.11		Each	2774.0
6.20.11		Each	3077.0

## Chapter 7

## DOL / Star delta starter type LT panels

S. No.	Description	Unit	Amended Rate (Rs.)
7.1	SITC <b>DOL</b> Starter type LT Panel of following rating, all switchgears are of PHED approved makes, CRCA sheet of Panel enclosure is of TATA/ Essar 1.6mm/ 2.0mm thick duly Electrostatic Powder Coated with angle frame including other ancillaries (Insulators, Acrylic Sheet, Backlight Sheet, Hardware, Wire, Name Plates, Lugs, Pvc Channel, Mcb Chanel, Lock, Hing, Bidding, Connectors, Neutral Links, Spiral, Saddle & Packing Material ) etc. complete as per Technical Specifications and as per direction of Engineer-In-Charge.		
7.1.1	DOL STARTER 2.2 KW (3 HP)-: For 2 motors (1 W+ 1S) I/C - MCB 25A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0- 500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 30/5A CL 1.0 5VA (3) , Indicating Lights ( Red-1, Yellow -1) (2), Indicating Lights ( Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3) and O/G- MCB 16A ,TP, 10 KA, C Curve (2), Power Cont 9A TP AC3 Duty(2), 2 NO+2 NC Aux. Block(2), Thermal Overload Relay (4-6A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green - 1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 2 Kvar (2)	Each	49356.00
7.1.2	DOL STARTER 3.7KW (5 HP) - : For 2 motors (1 W+ 1S) I/C - MCB 32A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0- 500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 30/5A CL 1.0 5VA (3) , Indicating Lights ( Red-1, Yellow -1) (2), Indicating Lights ( Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3) and O/G- MCB 25A ,TP, 10 KA, C Curve (2), Power Cont 12A TP AC3 Duty(2), 2 NO+2 NC Aux. Block(2), Thermal Overload Relay (7-10A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red-1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green - 1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 2 Kvar (2)	Each	50413.00
7.1.3	DOL STARTER 5.5 KW (7.5HP) - : For 2 motors (1 W+1S) I/C - MCB 40A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0- 500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 30/5A CL 1.0 5VA (3) , Indicating Lights ( Red-1, Yellow -1) (2), Indicating Lights ( Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3) and O/G- MCB 25A ,TP, 10 KA, C Curve (2), Power Cont 12A TP AC3 Duty(2), 2 NO+2 NC Aux. Block(2), Thermal Overload Relay (7-10A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red-1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green - 1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 2 Kvar (2)		51448.00

Amendment 01 PHED BSR 2022

DOL Star delta starter type LT panels

G

. No.	Description	Unit	Amended Rat (Rs.)
7.2	SITC STAR DELTA Starter type LT Panel of following rating: all		
	switchgears are of PHED approved makes, CRCA sheet of Panel enclosure		
	is of TATA/ Essar 1.6mm/ 2.0mm thick duly Electrostatic Powder Coated	•	
	with angle frame including other ancillaries ( Insulators, Acrylic Sheet ,		· · · ·
	Backlight Sheet, Hardware, Wire, Name Plates, Lugs, Pvc Channel , Mcb		
	Chanel , Lock, Hing , Bidding , Connectors, Neutral Links , Spiral , Saddle	· · .	
	& Packing Material ) etc. and 100A/ 125A ,TPN, Aluminium Bus Bar with		
- 1	Colour coated heat shrinkage sleeves complete as per Technical		
	Specifications and as per direction of Engineer-In-Charge.		
21	STAR DELTA STARTER 7.5 KW (10.0 HP) - : For 2 motors (1 W+		65077.00
, Z, I	STAR DELTA STARTER 7.5 KW (10.0 HP) - : For 2 motors (1 W+ 1S)	Each	65077.00
		•	· .
	I/C - MCB 63A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0-		
	500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A )		· · · ·
	(1), Amp. Selector Switch (1), C. T. 60/5A CL 1.0 5VA (3), Indicating Lights		· · · · ·
1.	(Red-1, Yellow -1) (2), Indicating Lights (Blue - 1) (1), Control MCB 6A SP		
	10 KA C Curve (3) and		
	O/G- MCB 32A, TP, 10 KA, C Curve (2), Power Cont 18A TP AC3 Duty(2),		
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (7-10A )(2), Control	·	
	MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating		a second as
	Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 (Red - 1, Green -		
	1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty		
	MPP Type 5Kvar (2), S/D Timer(2)		
2.2	STAR DELTA STARTER 9.3 KW (12.5 HP) - : For 2 motors (1 W+	Each	66938.00
. 2.2	1S)	Lacit	00550.00
	I/C - MCB 63A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0-		
1.5	500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A )		A DECEMBER OF
	(1), Amp. Selector Switch (1), C. T. 60/5A CL 1.0 5VA (3) , Indicating Lights		
	(Red-1, Yellow -1) (2), Indicating Lights (Blue - 1) (1), Control MCB 6A SP		
	10 KA C Curve (3) and		and the second second
· . ·	O/G- MCB 40A ,TP, 10 KA, C Curve (2), Power Cont 18A TP AC3 Duty(2),	· · ·	
·	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (7-10A )(2), Control	1. A 1997.	
	MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating		
	Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green -		
× 1.	1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty		
	MPP Type 5Kvar (2), S/D Timer(2)		
23	STAR DELTA STARTER 11.0 KW (15.0 HP) - : For 2 motors (1 W+	Each	70561.00
	1S)		
	I/C - MCB 63A ,FP, 10 KA, C Curve (1) , Analog Voltmeter 96*96mm ( 0-		
	500V ) (1), Volt Selector Switch (1) , Analog Ammeter 96*96mm ( 0-60A )		
1.		•	
	(1), Amp. Selector Switch (1), C. T. 60/5A CL 1.0 5VA (3) , Indicating Lights		
	(Red-1, Yellow -1) (2), Indicating Lights (Blue - 1) (1), Control MCB 6A SP		
	10 KA C Curve (3) and	i.	
		1	A second seco
	O/G- MCB 40A , TP, 10 KA, C Curve (2), Power Cont 25A TP AC3 Duty(2),	1	
		· · ·	
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (9-13A )(2), Control		
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (9-13A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating		
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (9-13A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green -		
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (9-13A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 (Red - 1, Green - 1 )(4), Selector Switch 1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty		
	2 NO+2 NC Aux. Block(2), Thermal Overload Relay (9-13A )(2), Control MCB 6A SP 10 KA C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green - 1, Amber-1)(6), Push Button 22.5 ( Red - 1, Green -		

DOL Star delta starter type LT panels

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No. Description	Unit	Amended Rate (Rs.)
2.4 STAR DELTA STARTER 15.0 KW (20.0 HP) : For 2 motors (1 W+	Each	99226.00
1S)		
I/C- MCCB 100A TPN 25 KA With T/M Based Over Current & Short Circuit		1
Protection (1), Spreaders (2), Extended Rotary Handle (1), Analog		
Voltmeter 96*96mm ( 0-500V ) (1), Volt Selector Switch (1) , Analog		
Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 100/5A		
CL 1.0 5VA (3), Indicating Lights ( Red-1, Yellow -1) (2), Indicating Lights (		
Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3)		
and		
O/G- MCCB 63A TPN 25 KA With T/M Based Over Current & Short Circuit		
Protection (2), Power Cont 32A TP AC3 Duty(2), 2 NO+2 NC Aux. Block(2),		
Thermal Overload Relay (12-18A )(2), Control MCB 6A SP 10 KA C Curve		÷
(2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green - 1,		
Amber-1)(6), Push Button 22.5 (Red - 1, Green - 1)(4), Selector Switch 1		
Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 7.5Kvar (2), S/D	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
Timer(2)	• · ·	
2.5 STAR DELTA STARTER 18.5 KW (25.0 HP) - : For 2 motors (1 W+	Each	108534.00
1S)		
I/C- MCCB 125A TPN 25 KA With T/M Based Over Current & Short Circuit		
Protection (1),Spreaders (2),Extended Rotary Handle (1), Analog		e na porte en tr
Voltmeter 96*96mm ( 0-500V ) (1), Volt Selector Switch (1) , Analog	1	
그는 것 같은 것 같		
Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 125/5A	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
CL 1.0 5VA (3), Indicating Lights (Red-1, Yellow -1) (2), Indicating Lights (		
Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3) and		
O/G- MCCB 100A TPN 25 KA With T/M Based Over Current & Short		and the second
Circuit Protection (2), Power Cont 32A TP AC3 Duty(2), 2 NO+2 NC Aux.	1	
Block(2), Thermal Overload Relay (16-24A )(2), Control MCB 6A SP 10 KA	· .	
C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green -		
1, Amber-1)(6), Push Button 22.5 (Red - 1, Green - 1)(4), Selector Switch		
1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 10 Kvar (2),		
S/D Timer(2)		
그는 것 그는 것 것 같은 것 같은 것을 것 같아. 같은 것 같은		
	Г te	122057.00
2.6 STAR DELTA STARTER 22.0 KW (30.0 HP) - : For 2 motors (1 W+	Each	122057.00
15)		
I/C- MCCB 125A TPN 25 KA With T/M Based Over Current & Short Circuit		
Protection (1), Spreaders (2), Extended Rotary Handle (1), Analog		
Voltmeter 96*96mm ( 0-500V ) (1), Volt Selector Switch (1) , Analog	1	
Ammeter 96*96mm ( 0-60A ) (1), Amp. Selector Switch (1), C. T. 125/5A	1	
CL 1.0 5VA (3), Indicating Lights (Red-1, Yellow -1) (2), Indicating Lights (	· .	
Blue - 1 ) (1), Control MCB 6A SP 10 KA C Curve (3)	e*	
and		
O/G- MCCB 100A TPN 25 KA With T/M Based Over Current & Short		
Circuit Protection (2), Power Cont 40A TP AC3 Duty(2), 2 NO+2 NC Aux.	1	et a transformation
Block(2), Thermal Overload Relay (23-32A )(2), Control MCB 6A SP 10 KA		
C Curve (2), Single Phase Preventer (2), Indicating Lights (Red- 1, Green -		
1, Amber-1)(6), Push Button 22.5 (Red - 1, Green - 1)(4), Selector Switch		
1 Pole, 2 Way (2), Capacitor 440VAC Heavy Duty MPP Type 12.5 Kvar (2),		
S/D Timer(2)	h a tha tha a	
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DOL Star delta starter type LT panels

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## Construction of pump house and boundary wall

S. No.	Description	Unit	Amended Rate (Rs.)
8.1	Construction of Pump house of required size suitable for installation of maximum 4 no. monoblock pump sets as per approved GA drawing, scope of work and technical specification complete work in all respect including electrical works for lighting and fans, rain water drainage. The plinth area of pump house shall be area of measurement.	sqm	20291.00
8.2	<ul> <li>Construction of boundary wall of Brick/ stone masonary as per enclosed GA drawing, scope of work and technical specifications complete work in all respect. Brief details of boundary wall parameter is as below:</li> <li>1. Depth of foundation- 900 mm.</li> <li>2. PCC in M-10, width -900 mm and thickness 100 mm,</li> <li>3. Stone masonary in CM: 1:6 section of foundation above PCC, 600 mm (W) x 450 mm (D) and 450 mm (W) x 450 mm (D)</li> <li>4. Superstructure work: Stone masonary in CM: 1:6, W-300, height-1650</li> </ul>		
	<ul> <li>mm,/ Brick work in CM: 1:6 W-230 mm, height- 1650 mm.</li> <li>5. Cement mortar pointing on Stone masonary and cement mortar plaster</li> <li>20 mm thick on brick masonary in CM 1:6.</li> <li>6. Expansion joint shall be on every 30 mtr.</li> <li>7. On top of wall there shall be CC Coping 75 mm thick (1:2:4) shall be provided.</li> <li>8. Pillar for main gate 350x350 mm in size is part of boundary wall.</li> <li>9. Cement paint of approved colour in 3 coat shall be done.</li> </ul>		6045.00
8.3	Providing and fixing steel, gate, grating and grills made of angles, tees, square bars, flats or black pipe with hold fast and fitting complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide and two coat of enamel paints.		122.00



Amendment 01 PHED BSR 2022

PH Boundary wall

### **Construction of Valve Chamber**

S. No.	Description	Unit	Amended Rat
9.1	Construction of RCC Sluice valve chamber for different type of valves		
	including earthwork excavation, 100mm PCC M15 as leveling course,		
1.1.1	RCC M25 grade for base slab, side wall & cover slab , including cost of		
	steel reinforcement , form work, Pre-cast, Plastic encapsulated CI/MS		
er Aller de la composition	Foot Rest, MS flats for the support of pre-cast, proper curing of		
	concrete work complete in all respect as per specifications and	· ··· ·	
	standard drawings and as directed by Engineer-in-Charge.	. '	
9.1.1.	For Class-AA loading	·	
9.1.1.1	Sluice valve chamber of size 1.13 m x0.85 m x1.325 m-	Each	38034.00
	for pipe size-upto 100 mm	· · · ·	
9.1.1.2	Sluice valve chamber of size 1.17m x 0.95m x1.47m	Each	42459.00
	for pipe size-from 125-to-150mm	•	
9.1.1.3	Sluice valve chamber of size 1.26m x1.185m x1.88m	Each	54470.00
	for pipe size-from 200-to-300mm	<u> </u>	9.
9.1.1.4	Sluice valve chamber of size 1.39m x1.43m x2.245m	Each	68271.00
	for pipe size-from 350-to-450mm	• • • • • • • • • • • • • • • • • • • •	
9.1.1.5	Sluice valve chamber of size 1.61m x1.75m x2.85m	Each	94400.00
	for pipe size-from 500-to-700mm	<u></u>	
9.1.2	For Class-A loading	• •	
9.1.2.1	Sluice valve chamber of size1.13m x0.85m x1.27m	Each	30764.00
·	for pipe size-upto100mm		
9.1.2.2	Sluice valve chamber of size1.17m x0.95m x1.415m	Each	34557.00
	for pipe size-from 125-to-150mm		
9.1.2.3	Sluice valve chamber of size1.26m x1.185m x1.82m	Each	45198.00
	for pipe size-from 200-to-300mm		
9.1.2.4	Sluice valve chamber of size1.39m x1.43m x2.185m	Each	58157.00
	for pipe size-from 350-to-450mm		
9.1.2.5	Sluice valve chamber of size1.61m x1.75m x2.795m	Each	82600.00
	for pipe size-from 500-to-700mm		
9.1.3	For in-campus Valve Chambers		00010.00
9.1.3.1	Sluice valve chamber of size1.13m x0.85m x1.225m	Each	29816.00
	for pipe size-upto100mm		22504.00
9.1.3.2	Sluice valve chamber of size1.17m x0.95m x1.37m	Each	33504.00
ta di	for pipe size-from 125-to-150mm		12407.00
9.1.3.3	Sluice valve chamber of size1.26m x1.185m x1.76m	Each	43407.00
	for pipe size-from 200-to-300mm	T-ab	54891.00
9.1.3.4	Sluice valve chamber of size1.39m x1.43m x2.125m	Each	34891.00
	for pipe size-from 350-to-450mm	Each	75857.00
9.1.3.5	Sluice valve chamber of size1.61m x1.75m x2.72m	Each	/3657.00
	for pipe size-from 500-to-700mm		

Construction of Valve Chamber

9.2       Construction of RCC Air valve chamber for different type of valves including earthwork excavation, 100mm PCC M15 as leveling course, RCC M25 grade for base slab, side wall & cover slab, including cost of steel reinforcement, form work, Pre-cast, Plastic encapsulated CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.         9.2.1       For Class-AA loading       41195.00         9.2.1       For Class-AA loading       541195.00         9.2.1       Air valve chamber of size1.05m x1.4m x1.945m       Each       47727.00         for air valve size of 100mm       5211.01 x1.1m x1.945m       Each       61529.00         for air valve size of 100mm       67 air valve chamber of size1.05m x1.4m x2.42m       Each       61529.00         for air valve size of 120mm       5311.00       67 air valve size of 3200mm       534663.00       53311.00         9.2.2       For Class-A loading       2.2.1       Air valve chamber of size1.05m x1.4m x2.42m       Each       53311.00         for air valve size of 120mm       5321.01 m x1.96m       Each       40984.00         for air valve size of 120mm       53311.00       73961.00       73961.00         for air valve size of 130mm       522.21       Air valve chamber of size1.05m x1.4m x2.42m       Each       53311.00         for air val	S. No.	Description	Unit	Amended Rate
including earthwork excavation, 100mm PCC M15 as leveling course,       RCC M25 grade for base slab, side wall & cover slab , including cost of steel reinforcement , form work, Pre-cast, Plastic encapsulated Cl/MS         Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.         9.2.1       For Class-AA loading         9.2.1       Air valve chamber of size0.9m x1m x1.695m       Each         41195.00       for air valve size-from 50 mm-to-80mm       Each         6.2.1.2       Air valve chamber of size1.05m x1.4m x2.42m       Each       61529.00         for air valve size of 150mm       For Class-A loading       Each       61529.00         3.2.1.4       Air valve chamber of size1.325m x1.7m x2.875m       Each       85129.00         for air valve size of 150mm       For Class-A loading       Each       34663.00         3.2.2.1       Air valve chamber of size1.325m x1.7m x2.875m       Each       40984.00         for air valve size of 100mm       For Class-A loading       53311.00       53311.00         3.2.2.2       Air valve chamber of size1.05m x1.4m x2.42m       Each       73961.00       for air valve size of 100mm       53301.00         9.2.3       For in-campus Valve Chambers       32.2.2       Air valve chamber of size1.325m x1.7m x2.9m       Each	9.2	Construction of RCC Air valve chamber for different type of valves		IRS_1
RCC M25 grade for base slab, side wall & cover slab , including cost of steel reinforcement , form work, Pre-cast, Plastic encapsulated CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.         9.2.1       Air valve chamber of size0.9m x1m x1.695m for air valve size of for Bomm.       Each         9.2.1.1       Air valve chamber of size0.9m x1m x1.695m for air valve size of 100mm       Each       47727.00         12.1.2       Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 150mm       Each       61529.00         12.1.3       Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 150mm       Each       85129.00         12.2.2       Air valve chamber of size1.05m x1.4m x2.71m for air valve size of 1200mm       Each       34663.00         9.2.2.2       For Class-A loading				
steel reinforcement , form work, Pre-cast, Plastic encapsulated CI/MS       Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.         9.2.1       For Class-AA loading		· 사람은 가슴 가슴을 다 가 다 가슴을 다 가 다 가슴을 다 가 다 가슴을 다 가슴을 다 가슴을 다 가슴을 다 가슴을 다 가 가슴을 다 가 다 가 다 가슴을 다 가 다 가 가 다 가 다 가 다 가 다 가 다 가 다 가 다 가		
Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.9.2.1For Class-AA loadingEach9.2.1.1Air valve chamber of size0.9m x1m x1.695mEach4.1195.00for air valve size-from 50 mm-to-80mmEach0.2.1.2Air valve chamber of size1.05m x1.4m x2.42mEach6.12.1Air valve chamber of size1.05m x1.4m x2.42mEach6.12.2.1Air valve chamber of size1.325m x1.7m x2.875mEach6.2.1.2For Class-A loading-9.2.2.1Air valve chamber of size1.325m x1.7m x2.875mEach6.12.2.1Air valve chamber of size0.9m x1m x1.71mEach9.2.2For Class-A loading-9.2.2.3Air valve chamber of size1.05m x1.4m x2.42mEach6.12.2.4Air valve chamber of size1.05m x1.4m x2.42mEach7.3.2.3.1Air valve chamber of size1.05m x1.7m x2.9mEach7.3.3.1Air valve chamber of size1.05m x1.4m x2.42mEach9.2.3.3Air valve chamber of size1.05m x1.7m x2.9mEach7.3.1Air valve chamber of size1.05m x1.4m x2.9m57.3.1Air valve chamber of size1.05m x1.7m x2.9mEach7.3.1Air valve chamber of size1.05m x1.7m x2.9m57.3.3.1Air valve chamber of size1.05m x1.4m x2.37mEach7.3.3.1Air valve chamber of size1.05m x1.4m x2.37mEach7.3.3.3.1Air valve chamber of size1.05m x1.7m x2.825mEach7.3.3.4Air valv				
concrete work complete in all respect as per specifications and standard drwings and as directed by Engineer-in-Charge.9.2.1For Class-AA loadingA9.2.1.1Air valve chamber of size0.9m x1m x1.695m for air valve size of 100mmEach41195.0012.1.2.1Air valve chamber of size1.05m x1.1m x1.945m for air valve size of 100mmEach47727.0012.1.3Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 150mmEach61529.0012.1.4Air valve chamber of size1.05m x1.7m x2.875m for air valve size of 150mmEach85129.0012.1.1Air valve chamber of size1.325m x1.7m x2.875m for air valve size of 150mmEach34663.0012.2.1Air valve chamber of size1.05m x1.7m x2.875m for air valve size of 100mmEach34663.0012.2.2.1Air valve chamber of size1.05m x1.7m x2.875m for air valve size of 100mmEach34663.0012.2.2.3Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 100mmEach33609.0012.2.2.3Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 150mmEach33609.0012.2.3Air valve chamber of size1.05m x1.7m x2.9m for air valve size of 200mmEach33609.0012.3.1Air valve chamber of size1.05m x1.4m x2.37m for air valve size of 150mmEach33609.0012.3.3Air valve chamber of size1.05m x1.4m x2.37m for air valve size of 150mmEach53720.0012.3.3Air valve chamber of size1.325m x1.7m x2.825m for air valve size of 150mmEach5362.0012.3.3Air v				
standard drawings and as directed by Engineer-in-Charge.       9.2.1         For Class-A loading       41195.00         b2.1.1       Air valve chamber of size0.9m x1m x1.695m       Each       41195.00         b2.1.2       Air valve chamber of size10 mx 1.1m x1.945m       Each       47727.00         for air valve size of 100mm       Each       47727.00         joint valve size of 500mm       Each       61529.00         joint valve size of 200mm       Each       85129.00         joint valve size of 200mm       Each       85129.00         joint valve size of 200mm       Each       85129.00         joint valve size of 200mm       Each       34663.00         joint valve size of 500mm       Each       34663.00         joint valve chamber of size1.05m x1.4m x2.42m       Each       40984.00         joint valve size of 100mm       Each       53311.00         joint valve size of 100mm       Each       73961.00         joint valve size of 100mm       Each       33609.00         joint valve size of 100mm       Each		Foot Rest, MS flats for the support of pre-cast, proper curing of		
9.2.11       For Class-AA loading       Each       41195.00         12.1.1       Air valve chamber of size.0.9m x1m x1.695m       Each       41195.00         10.2.1.2       Air valve chamber of size.1mm x1.945m       Each       47727.00         11.3       Air valve chamber of size.10.5m x1.4m x2.42m       Each       61529.00         12.1.3       Air valve chamber of size.1.05m x1.4m x2.42m       Each       61529.00         12.1.4       Air valve chamber of size.1.325m x1.7m x2.875m       Each       85129.00         15.2.1       Air valve chamber of size.1.325m x1.7m x2.875m       Each       85129.00         16.7 air valve size of 200mm       For Class-A loading       -       -         2.2.1       Air valve chamber of size.0.9m x1m x1.71m       Each       34663.00         16.7 air valve size of 00mm       Each       40984.00       -         17.2.2       Air valve chamber of size.1.05m x1.4m x2.42m       Each       53311.00         18.2.2.1       Air valve chamber of size.1.325m x1.7m x2.9m       Each       53311.00         19.2.2.3       For in-campus Valve Chambers       -       -       73961.00         19.2.3.1       Air valve chamber of size.0.9m x1m x1.66m       Each       33609.00       -         12.3.3       Air valve cha		concrete work complete in all respect as per specifications and		
9.2.11       For Class-AA loading       Each       41195.00         12.1.1       Air valve chamber of size.0.9m x1m x1.695m       Each       41195.00         10.2.1.2       Air valve chamber of size.1mm x1.945m       Each       47727.00         11.3       Air valve chamber of size.10.5m x1.4m x2.42m       Each       61529.00         12.1.3       Air valve chamber of size.1.05m x1.4m x2.42m       Each       61529.00         12.1.4       Air valve chamber of size.1.325m x1.7m x2.875m       Each       85129.00         15.2.1       Air valve chamber of size.1.325m x1.7m x2.875m       Each       85129.00         16.7 air valve size of 200mm       For Class-A loading       -       -         2.2.1       Air valve chamber of size.0.9m x1m x1.71m       Each       34663.00         16.7 air valve size of 00mm       Each       40984.00       -         17.2.2       Air valve chamber of size.1.05m x1.4m x2.42m       Each       53311.00         18.2.2.1       Air valve chamber of size.1.325m x1.7m x2.9m       Each       53311.00         19.2.2.3       For in-campus Valve Chambers       -       -       73961.00         19.2.3.1       Air valve chamber of size.0.9m x1m x1.66m       Each       33609.00       -         12.3.3       Air valve cha		standard drawings and as directed by Engineer-in-Charge.	-	
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2.1.2       Air valve chamber of size1m x1.1m x1.945m for air valve size of 100mm       Each       47727.00         0.2.1.3       Air valve chamber of size1.05m x1.4m x2.42m for air valve size of 150mm       Each       61529.00         9.2.1       Air valve chamber of size1.325m x1.7m x2.875m for air valve size of 200mm       Each       85129.00         9.2.2       For Class-A loading	9.2.1.1		Each	41195.00
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for air valve size of 150mm       Each       85129.00         0.2.1.4       Air valve chamber of size1.325m x1.7m x2.875m       Each       85129.00         for air valve size of 200mm       For Class-A loading		for air valve size of 100mm		
1.2.1.4       Air valve chamber of size1.325m x1.7m x2.875m       Each       85129.00         for air valve size of 200mm       For Class-A loading       Each       34663.00         9.2.2       For Class-A loading       Each       34663.00         for air valve size form 50 mm-to-80mm       Each       40984.00         for air valve size form 50 mm-to-80mm       Each       40984.00         for air valve size of 100mm       Each       53311.00         for air valve size of 120mm       Each       53311.00         for air valve size of 120mm       Each       53311.00         for air valve size of 200mm       Each       73961.00         for air valve size of 200mm       Each       73961.00         for air valve size of 120mm       Each       33609.00         jor air valve size of 100mm       Each       33720.00         for air valve size of 100mm       Each       39720.00         for air valve size of 100mm       Each       51520.00         for air valve size of 200mm       Each       51520.00         for air valve size of 200mm       Each       51520.00         for air valve size of 200mm       Each       51520.00         jor air valve size of 200mm       Each       69852.00 <t< td=""><td>9.2.1.3</td><td>Air valve chamber of size1.05m x1.4m x2.42m</td><td>Each</td><td>61529.00</td></t<>	9.2.1.3	Air valve chamber of size1.05m x1.4m x2.42m	Each	61529.00
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9.2.2       For Class-A loading		for air valve size of 200mm		
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cost of steel reinforcement , form work, Pre-cast, Plastic encapsulated CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.9.3.1For Class-AA loading9.3.1.1Scour valve chamber of size1.13m x0.85m x1.985mEach45725.00 for connecting pipe size-upto100mm49307.00		valves including earthwork excavation, 100mm PCC M15 as leveling		
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CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.9.3.1For Class-AA loading9.3.1.1Scour valve chamber of size1.13m x0.85m x1.985m for connecting pipe size-upto100mm9.3.1.2Scour valve chamber of size1.175m x0.95m x2.285mEach49307.00		cost of steel reinforcement , form work. Pre-cast. Plastic encapsulated		
concrete work complete in all respect as per specifications and standard drawings and as directed by Engineer-in-Charge.9.3.1For Class-AA loading9.3.1.1Scour valve chamber of size1.13m x0.85m x1.985mFor connecting pipe size-upto100mmEach9.3.1.2Scour valve chamber of size1.175m x0.95m x2.285mEach49307.00				
standard drawings and as directed by Engineer-in-Charge.9.3.1For Class-AA loading9.3.1.1Scour valve chamber of size1.13m x0.85m x1.985m6.3.1.1For connecting pipe size-upto100mm9.3.1.2Scour valve chamber of size1.175m x0.95m x2.285mFach49307.00				
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for connecting pipe size-upto100mm9.3.1.2Scour valve chamber of size1.175m x0.95m x2.285mEach49307.00			E - l-	45735.00
O.3.1.2         Scour value chamber of size1.175m x0.95m x2.285m         Each         49307.00	9.3.1.1		Each	45725.00
J.J.I.Z JOCOU. VIIVE CHAMBER OF CHECKER ON MEDICIN			Ch	40207.00
for connecting pipe size-more than 100 mm & upto 150mm	9.3.1.2		Eacn	49507.00
an an an Beach Reich an an an Anna an an Anna an Anna an Anna an Anna 🔔 an Anna 🔒 👗 an Anna an 🗼 🗒 an Anna an A	and the state	for connecting pipe size-more than 100 mm & upto 150mm		<u> </u>

Construction of Valve Chamber

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			al and
S. No.	Description	Unit	Amended Rate
9.3.1.3	Scour valve chamber of size1.2m x1.08m x2.485m	Each	55629.00
	for connecting pipe size- more than 150 mm & upto 200mm		
9.3.2	For Class-A loading		
9.3.2.1	Scour valve chamber of size1.13m x0.85m x1.95m	Each	40246.00
$(A_{i})_{i\in I} = \{A_{i}\}_{i\in I}$	for connecting pipe size-upto100mm		
9.3.2.2	Scour valve chamber of size1.175m x0.95m x2.25m	Each	46357.00
	for connecting pipe size-more than 100 mm & upto150mm		
9.3.2.3	Scour valve chamber of size1.2m x1.08m x2.45m	Each	51941.00
	for connecting pipe size-more than 150 mm & upto200mm		
9.4	Construction of RCC Scour valve chamber dry type for different type of		
	valves including earthwork excavation, 100mm PCC M15 as leveling		
	course, RCC M25 grade for base slab, side wall & cover slab , including		
	cost of steel reinforcement , form work, Pre-cast, Plastic encapsulated		
	CI/MS Foot Rest, MS flats for the support of pre-cast, proper curing of		
i si i Si si si si	concrete work complete in all respect as per specifications and	· ·	
the first	standard drawings and as directed by Engineer-in-Charge.	· ·	
9.4.1	For Class-AA loading		
9.4.1.1	Scour valve chamber of size1.13m x0.85m x1.985m	Each	39614.00
	for connecting pipe size-upto100mm		$\sum_{i=1}^{n-1} \frac{1}{n} \sum_{i=1}^{n-1} \frac{1}{n$
9.4.1.2	Scour valve chamber of size1.175m x0.95m x2.285m	Each	42143.00
	for connecting pipe size- more than 100 mm & upto 150mm		
9.4.1.3	Scour valve chamber of size1.2m x1.08m x2.485m	Each	51309.00
2	for connecting pipe size- more than 150 mm & upto 200mm		
9.4.2	For Class-A loading		
9.4.2.1	Scour valve chamber of size1.13m x0.85m x1.95m	Each	38245.00
	for connecting pipe size-upto100mm		
9.4.2.2	Scour valve chamber of size1.175m x0.95m x2.25m	Each	44145.00
	for connecting pipe size-more than 100 mm & upto150mm		
9.4.2.3	Scour valve chamber of size1.2m x1.08m x2.45m	Each	49623.00
	for connecting pipe size-more than 150 mm & upto200mm		
9.5	Construction of RCC pillar for following size of air valves including		
	earthwork excavation, RCC M25 grade for base slab, vertical pillar,		
	including cost of steel reinforcement ,GI (class-B)/MS vertical pipe, form		
	work, proper curing of concrete work complete in all respect as per		
	standard specifications and drawings and as directed by Engineer.	an a	
9.5.1	Air valve pillar for air valves size of 80mm dia	Each	21071.00
9.5.2	Air valve pillar for air valves size of 100mm dia	Each	23073.00
9.5.3	Air valve pillar for air valves size of 150mm dia	Each	32134.00
9.5.4	Air valve pillar for air valves size of 200mm dia	Each	38561.00

**Construction of Valve Chamber** 

# Solar based water supply schemes

S. No.	Description	Unit	Amended Rate (Rs.)
10.1	Supply, installation, testing and commissioning of MNRE approved Grid tied Solar Panels with inverter, meter, cable etc. suitable for Rooftop installation as well as Utility Scale Solar Power Projects with 25 years of Linear	•	
	Generation warranty. Work includes designing of solar panel area and MS frame and foundation on ground/roof of Pump house or CWR, showing arrangement of panel in available space, installation of PV module on MS		
	frame as per approved design and drawings. Mounting structure shall be suitably designed to withstand wind velocity up to 150km/hr.		
• .•	Grid Tie Transformer less inverters, Multiple independent MPPTs, Peak efficiency of >98%. Connect up to multiple strings PV arrays, Easy & fast connection. Built in string loud monitoring, IBCE, protection loud, Wil Fi	•	
	connection, Built-in string-level monitoring, IP65 protection level, Wi-Fi / internet based remote monitoring with 5 years warranty. All cabling up to panel and metre, earthing etc. required accessories and		
	taxes are inclusive. The work shall be executed as per detailed technical specifications, approved drawing and direction of Engineer in Charge.	· ·	
	Note: There shall be 5 year service warranty for panel, inverter, meter, cable etc. and suitable provision shall be included in tender document.	· · ·	
10.1.1	Solar panels up to 10 KW at a single location.	Watt	60.00
10.1.2	Solar panels more than 10 KW and up to 50 KW at a single location.	Watt	57.00
10.2	Supply, installation, testing and commissioning of MNRE approved off Grid Solar Panels for running of motor pumps with 25 years of Linear Generation	· · ·	
	warranty, Work includes designing of solar panel area and MS frame and foundation on ground/roof of Pump house or CWR, showing arrangement of		
	panel in available space, installation of PV module on MS frame as per approved design and drawings. Mounting structure shall be suitably design	Watt	43.00
	to withstand wind velocity up to 150km/hr. The work shall be executed as per detailed technical specifications, approved drawing and direction of	¥¥all	45.00
	Engineer in Charge. Note: There shall be 5 year service warranty for solar panel and mounting structure and suitable provision shall be included in tender document.	· ·	

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Solar based water supply schemes

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5. No.	Description	Unit	Amendeo Rate (Rs.)
10.3	Supply, installation, testing and commissioning of MNRE approved off Grid		
	Solar Panels for running of motor pumps with 25 years of Linear Generation		
	warranty, Work includes designing of solar panel area and MS fabricated		
	structure 120 micron hot dip galvanized iron , showing arrangement of panel		
· .	in available space and installation of PV module on frame structure such		
1.11			
	that minimum height of lower edge of panel shall be 4.0 mtr from ground		
	level to safeguard against damage and theft as per indicative drawing		
	enclosed with the bid document. The foundation of structure shall be in RCC.	Watt	61.00
: 1	Mounting structure shall be suitably designed to withstand wind velocity up		
11	to 150km/hr. The work shall be executed as per detailed technical		
	specifications, approved drawing and direction of Engineer in Charge.		
	Note: There shall be 5 year service warranty for solar panel and mounting		
	structure and suitable provision shall be included in tender document.		
		·	
10.4	Supply, installation, testing and commissioning of MNRE approved off Grid		
		and the second	
	Solar Panels for running of motor pumps with 25 years of Linear Generation		
	warranty, Work includes designing of solar panel area and structure,		
	showing arrangement of panel on rectangular OHSR with flat roof/ MS		$(-2)^{-1} = (-1)$
	fabricated structure with polyethylene tank and installation of PV module		1
11 <sup>1</sup> .	on above structure as per approved design and drawings. Mounting		
	structure shall be suitably design to withstand wind velocity up to 150km/hr.		
	The work shall be as per detailed technical specifications, approved drawing	Watt	51.00
t det e	and direction of Engineer in Charge.		1
$(r_{i}) \in \mathcal{L}^{1}$	This item does not include cost of OHSR/ MS fabricated structure with tank		
	but includes cost of items required for installation of solar panels on top of		
. 1	the tank.		
	Note: There shall be 5 year service warranty for solar panel and mounting	· · ·	1 - 1 - 1 - 1
	structure and suitable provision shall be included in tender document.		
	se decure and suitable provision shall be included in tender document.		
10.5	Providing, installation, testing and commissioning of AC submersible pump		
10.5			
	sets with inbuilt or individual solar pump controller with Maximum power	· ·	
	point tracking (MPPT) for optimally use the solar panel and maximize water	5	
	discharge to deliver maximum water during the day including PVC flat		1
1	submersible cable from controller to motor pumps		
	Solar pump shall be of Stainless steel construction and performance shall be		
	as per scope of work and minimum lift of water shall be as per defined in		
	scope .		· · · ·
	Pump controller shall have Adequate protection against dry operation of		
	motor pump set, and against hails and storms. Full protection against open		- -
	circuit, accidental short circuit and reverse polarity should be provided. A		
	good reliable on/off switch be provided. The cable shall be ISI marked three		-
	core PVC flat submersible cable as per IS 694:1990 or amended up to date (		
	standard insulation) and conductor as per class 5 of IS 8130:1980 or		
	amended up to date.		
	The duty condition of pump set shall be as per scope of work and entire		. •
	work shall be executed as per technical specification and direction of		
	Engineer in charge.		
0.5.1	0.75 KW (1.0 HP)	Each	73440.00
	1.5 KW (2.0 HP)	Each	78984.00
0.5.3	2.2 KW (3.0 HP)	Each	113863.00

Solar based water supply schemes

S. No.		. 1		
2. 140.	Description	Unit	Amendeo	
			Rate (Rs.	
	3.7 KW (5.0 HP)	Each	145415.00	
_	5.5 KW (7.5 HP)	Each	186620.00	
10.5.6	7.5 KW (10.0 HP)	Each	203624.00	
10.5.7	9.3 KW (12.5 HP)	Each	228406.00	
10.5.8	11 KW (15.0 HP)	Each	250196.0	
10.6	Supply, installation, testing and commissioning of DC submersible pump sets			
	with inbuilt or individual solar pump controller with Maximum power point			
	tracking (MPPT) for optimally use the solar panel and maximize water			
	discharge to deliver maximum water during the day including PVC flat			
· ·	submersible cable from controller to motor pumps.			
	Solar pump shall be of Stainless steel construction and performance shall be			
		- · · ·		
• •	as per scope of work and minimum lift of water shall be as per defined in			
	scope .		2 - F	
	Pump controller shall have Adequate protection against dry operation of			
••	motor pump set, and against hails and storms. Full protection against open			
	circuit, accidental short circuit and reverse polarity should be provided. A			
	good reliable on/off switch suitable for DC use is to be provided. The cable			
. * *	shall be ISI marked three core PVC flat submersible cable as per IS 694:1990		-	
	or amended up to date ( standard insulation) and conductor as per class 5 of			
	IS 8130:1980 or amended up to date.			
1. A. A. A.	The duty condition of pump set shall be as per scope of work and entire			
	work shall be as per technical specification and direction of Engineer in			
	charge.			
5 - 19 T				
0.6.1	0.75 KW (1.0 HP)	Each	111031.0	
0.6.2	1.5 KW (2.0 HP)	Each	129667.0	
0.6.3	2.2 KW (3.0 HP)	Each	162446.0	
10.7	Supply, installation, testing and commissioning of Remote monitoring unit on			
	off grid solar controller for remote ON/OFF, parameter setting, monitoring			
	and troubleshooting through mobile etc. complete. Web charges and data			
	charges for 5 year during service warranty etc. complete in all respect as per	Each	45830.00	
	technical specification and as per direction of Engineer.			
	technical specification and as per unection of Engineer.			
10.0				
10.8	Providing, installation, testing and commissioning structural steel work			
	riveted or bolted in built up sections, trusses and framed work, including			
	cutting, hoisting for following staging and capacity of Rotational Moulded			
	Polyethylene water storage tank on it as per indicative drawing given in the			
	bid document. On the Polyethylene tanks, there shall be provision of			
	suitable space for installation of solar panels up to 5.0 KW and further		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	additional 2.5 KW on the side of Steel structure if required as per indicative			
	drawing. Cost of solar panels is not included in this item			
 	The structural steel shall be 120 micron hot dip galvanized iron and	н. н. н Стала		
		· · ·		

Solar based water supply schemes

S. No.	Description	Unit	Amended Rate (Rs.)
· · ·,	(other than rocky strata). The work includes P&F of Polyethylene Water		÷
	Storage Tank(IS: 12701, ISI marked, indicating the BIS license No.) of		
	approved make with cover. Providing & fixing 50 mm dia ISI marked G.I. class		
	B pipe for inlet, outlet and over flow pipe and 32 mm GI class B pipe for wash		
ана стана 1910 г. – Стана 1917 г. – Стана Стана	out with GM gate valves at inlet and outlet pipe Including making connection		•
	etc. complete as per drawing, technical specification and direction of		
e Les N	Engineer in In charge. The scope includes inlet GI pipe from ground level to		
	water tank and outlet pipe from water tank to ground and up to 2.0 mtr		
·	away from foundation and overflow pipe is to be interconnected in		
	distribution pipe line. Wash out pipe shall be taken up to a suitable point		· ·
1. <sup>1</sup> . 1.	minimum 5.0 mtr away from tank. Water level controller shall installed to		
	monitor level in tank and shall automatically shut off motor when tank is		
	filled .		
	Note: There shall be 5 year service warranty for structure, tank, fittings etc.		
2 <sup>1</sup>	and suitable provision shall be included in tender document.		
10.8.1	5000 Litre X 2 Nos. PE water tank, staging 10 meter.	Each	683885.00
10.8.2	7500 Litre X 2 Nos. PE water tank, staging 10 meter.	Each	747900.00
10.8.3	5000 Litre X 2 Nos. PE water tank , staging 12 meter.	Each	769570.00
10.8.4	7500 Litre X 2 Nos. PE water tank, staging 12 meter.	Each	833585.00

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Solar based water supply schemes

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### Instrumentation

S. No.	Description	Unit	Amended Rate (Rs.)
	Electromagnetic Flow meter		
	SITC of D/F Full bore type Electromagnetic Flow Meter of approved make of		
in the t	following dia and specifications complete: Media : Water (Raw/	1. A. A. A.	
	Chlorinated), Pressure : up to 1.5MPa, Process temp: - 50 deg C,		
	Flow/Meter Tube : SS 304, Electrode : SS AISI 316L / Hastelloy C276/		
	Tantalum, Lining Material : Hard Rubber/ Neoprene / Poly-urethane (PU) ,		
	Flange : SS / CS, Flange Standard & Rating : ANSI 150, Coll housing : SS AISI		
	304/ Carbon Steel/ Die Cast Aluminium, with anticorrosive paint & provide		
	completely sealed (leak proof) construction as per requirement of IEC		
	60529, Accuracy : ± 0.5 % M.V velocity 0.3 to 10 m/s, Transmitter/ signal		
	convertor Enclosure : Die Cast Aluminium, Power Supply : 80-240 V AC -	· ·	
11.1	50Hz, Output 1 : 4-20 mA, Output 2: Pulse, Communication Output : RS 485/	1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	an te se di
	Heart, Display Type : LCD/ LED Display, Cable Entry : M20 X 1.5, Provision of		
n din di Kabupaté	RAM/PROM to store calibration and configuration parameters and totalizer		
	value during power failure, Protection category- IP 68 for sensor (flow tube)		Sector 2
	and IP 67 for transmitter/ convertor, including Surge Arrester, if required,		
	and all materials required for making connection with existing pipeline		
	including cutting the existing pipeline etc. complete in all respect as per		
	technical specification and as per direction of Engineer In-Charge.		
	Note: Rates are exclusive of tail piece / dismantling joints and earth work.		
11.1.1	EFM 50 mm	Each	93140.00
	EFM 80 mm	Each	103887.00
	EFM100 mm	Each	113701.00
	EFM 125 mm	Each	126772.00
11.1.5	EFM 150 mm	Each	139989.00
	EFM 200 mm	Each	142267.00
	EFM 250 mm	Each	177788.00
	EFM 300 mm	Each	219760.00
	EFM 400 mm	Each	275777.00
	EFM 450 mm	Each	388012.00
11.1. <b>11</b>	EFM 500 mm	Each	425245.00
	EFM 600 mm	Each	558809.00

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Amendment 01 PHED BSR 2022

Instrumentation

S. No.	Description	Unit	Amended Rat (Rs.)
l	ULTRASONIC FLOW METER		I
	SITC of Ultrasonic Flow Meter of approved make of following dia sized		
	pipelines and specifications complete: Media : Water (Raw/Clear )		
	Pressure : up to 1.5MPa, Process temp: - 50 deg C, Flow velocity range: -		
	10 m/s to +10m/s (bidirectional), Power supply- 80 to 240 v/ AC, 50		
	Hz., Output 1 : 4-20 mA, Communication Output : RS 485, Display Type : LCD/		
	LED Display, Cable Entry : M20 X 1.5, Acoustic path: single/ dual, Accuracy :		
	$\pm$ 1% of M.V (max.) for size 50-300mm and $\pm$ 2% of M.V (max.) for size 350-	•	
11.2	2000mm (single path) , Transmitter Enclosure: Cast Aluminium, Sensor		
	cable: encapsulated, Sensor mounting method: V / Z type, Protection type:		
	IP 67, including all materials required for Ultrasonic Flow Meter complete	·	
	in all respect as per technical specification and as per direction of Engineer		en tit strand i de service. E
	In-Charge.	e e Tarra de la composición br>de la composición de la	
	Note: Rates are exclusive of tail piece / dismantling joints and earth work.		an a
	Note: Rates are exclusive of tail piece y dismanting joints and cardi work.	-	
11.2.1	UFM 200mm -600 mm (CLAMP ON TYPE)	Each	346225.00
11.2.2	UFM 200mm -600 mm (INSERTION TYPE)	Each	404560.00
	BULK FLOW METER (MECHANICAL TURBINE TYPE)		
lan sa ba	SITC of Bulk Flow Meter with removable mechanism class "B" confirming to	2	
	ISO:4064:2005/ IS: 2373 of approved make of following dia sized pipelines		
	and specifications complete: Media : Water (Clear ), Temp. 50 deg., Pr.		
	rating: PN16, Protection type: IP- 68, Body Material : IS-210 Gr. FG-200,		
	Accuracy Class :Class B (±2 % @ Nominal flow rate), Magnetic Drive, Dry		
44.5	Dial, Epoxy powder coated, Pulse out put option, Anti-magnetic protection		1.5
11.3	including all materials and making connection with existing pipeline required		
	for Bulk Flow Meter including cutting the existing pipeline etc. complete in	arian da arian Arian	
	all respect as per technical specification and as per direction of Engineer In-		
	Charge.	· · ·	
	Note: Rates are exclusive of tail piece / dismantling joints and earth work.		· · · · · · · · · · · · · · · · · · ·
11.3.1	BFM 80 mm	Each	13283.00
11.3.2	BFM100 mm	Each	16934.00
11.3.3	BFM 125 mm	Each	23657.00
11.3.4	BFM 150 mm	Each	26054.00 32570.00
	BFM 200 mm	Each	64380.00
11.3.6	BFM 250 mm	Each	
11.3.7	BFM 300 mm	Each	86669.00
11.3.8	BFM 400 mm	Each	
11.3.9	BFM 450 mm	Each	166459.00
11.3.10	BFM 500 mm	Each Each	247657.00
11.3.11	BFM 600 mm		

instrumentation

S. No.	Description	Unit	Amended Rate (Rs.)
	ULTRASONIC LEVEL SENSOR		
	SITC of Ultrasonic Level Transmitter suitable for measuring water level in		
	reservoir, Normal Powered 24VDC, Type of Transmitter: Two Wire ( 4-20 mA), Cable Entry:1/2" NPT (F), Sensor Material: PP, slip-on Flange: 2 ½"		
11.4	Flange, Material of Construction for Slip-on flange: PP, output 4~20mA,		
	HART compatible, accuracy +/_0.2 % as per detailed Technical specification, scope of work and direction of Engineer in charge.		
11.4.1	Measuring range 0.0 to 6.0 mtr	Each	65789.00
11.5	SITC of Ultrasonic Level Transmitter suitable for measuring water level in reservoir, powered by solar panel with minimum 48 power back up or internal installed battery ( 5 years battery life with replacement warranty), with out put as GSM/GPRS + data logger, Sensor Material: PP, accuracy +/_		
	0.2 %, as per detailed Technical specification, scope of work and direction of Engineer in charge.		
11.5.1	Measuring range 0.0 to 6.0 mtr	Each	119106.00

Instrumentation

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Amendment 01 PHED BSR 2022

## Earth Work & Civil Works related to Storage Tank, Filter media work

S. No.	Description	Unit	Amended Rate (Rs.)
	STORAGE TANKS		
12.1	Earth work in excavation over area ( for Sedimentation cum storage	Cum	92.00
	tank) Exceeding 30 cm in depth 1.5 Mtrs in width as well as 10 Sqm on plan) including disposal of excavated earth lead up to 50 M and all lift. Disposed earth to be levelled and neatly dressed including stacking of useful material if any available during excavation for all kind of soil.		
	Earth work to be carried out by means of mechanical system i.e. Tractor craw or any other mechanical system. No extra payment shall be done for lift of any limit. This work also involves dressing of sides & bottom for lining purpose which is to be done manually, slope of sides to be		
	maintained as per specification. Work is to be done as per direction of Engineer In Charge and technical specifications.		
12.2	Silt clearance from Sedimentation cum storage tank with all lift and lead	Cum	115.00
	up to 50 Mtr. Silt to be disposed outside the Headworks boundaries. Disposed silt to be levelled and neatly dressed including stacking of useful material if any available during excavation for all kind of soil. Silt		
	clearance is to be carried out by means of mechanical system i.e. Tractor craw/Trolley or any other mechanical system. No extra payment shall be done for lift . This work also involves dressing of bottom which is to be		
	done manually and there shall be no damage to lining and LDPE film of tank. Work is to be done as per direction of Engineer In Charge and technical specifications.		
	NOTE :- For additional lead, beyond 50M, every additional lead will be paid as per PWD BSR. But for lead of 500M, 1 km. and onward; initial rate of 50M will be deducted from concern rates of above said leads		
12.3	SINGLE FLAT BRICK LINING WITH 250 MICRON LDPE FILM:- Preparing	Sqm	551.00
	surface levelled & dressed to proper slope & laying over it on sand properly rammed and watered in 2 Layers of 5 cm each. Providing and laying 250 micron LDPE film as per ISS:2506-1984 including overlapping		
	on the finished surface of compacted sand. Over LDPE film 15 mm thick cement sand mortar 1:3 shall be provided and laid which shall be cured properly. Over the base mortar single layer i <sup>st</sup> class brick lining in		
	cement sand mortar 1:3 shall be provided with joints not more than 8 mm wide and curing shall be done for 14 days. This also includes providing weedicides & anti-termite treatment, complete work as per		
	technical specifications.		
12.4	Providing and fixing PVC float in Raw Water Storage tank with CI tail piece 150mm dia-2 Nos, CI puddle collar-150mm dia- 1.20 M- 1 No. and PVC hose pipe- 150mm dia -6 M & all accessories complete in all respect as per Instructions of Engineer In Charge. Complete Job		15804.00

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S. No.	Description	Unit	Amended Rate (Rs.)
	FILTER MEDIA		
12.5	Providing and placing of new graded gravel as (i) Size of Gravel vary	Cum	3582.00
	from 50 mm at the bottom to 2. to 5 mm at the top as detailed: (a)		
	Passing 80 mm screen but held on 10 mm- 150 mm layer (b) Passing 25	f  =  f  =  f	
and the fact	mm screen but held on 10 mm- 50 mm layer (c) Passing 10 mm screen		
	but held on 5 mm- 50 mm layer Passing (d) 5 mm screen but held on 2		
	mm- 50 mm layer (ii) The filter gravel shall be as spherical as possible,		
	hard, clean and uniform in quality and also shall not contain such		
	impurities as dirt and clay as per IS: 8419 (Part-I) for filter gravel		
	specifications. The work also includes washing the gravel with required		
	concentration of HCL acid and finally with water and placing the same in		
	filter beds as per direction of Engineer- In- Charge and technical		
	specification complete in all respect. The gravel shall not contain more	an a	
	than 5% acid soluble matter as determined by solubility test in Appendix		
	B of IS: 8419 (Part-I) amended up to date. (For RGF)	et de	
12.6	Supply and charging of filter media (Gravel) as per department	Cum	2048.00
12.0	specification including screaming, washing with 5% HCL solution to	Tetri Ali se	
	make Gravel (Size 4 to 6mm, 8 to 12mm, 10 to 20mm - Hard Coarse grit		
•	from approved quarry) free from silt, clay and other all impurities work		
	to be executed as per scope of work fixed by the department at the time		
	of tendering (for SSF)		
12.7	Providing and Placing of new filter media as (i) Sand shall be hard and	Cum	4047.0
12.7	resistant quartz or quartzite and free of clay, fine particles, soft grains		
	and dirt of any description. (ii) Effective size shall be 0.45 to 0.70 mm.		
	(iii) Uniformity Coefficient not be more than 1.70 nor less than 1.30. (iv)	e e e e	
	Ignition loss should not exceed 0.70% by weight. (v) Soluble fraction in		
	HCL acid shall not exceed 5.0% by weight, (vi) Silica content should not		
	be less than 95% (vii) Specific Gravity shall be in the range between 2.55		
	to 2.65 (viii) Wearing loss shall not exceed 3.0%. and as per		
	specifications given in IS: 8419 (Part-I). Filter media (fine sand and		1
	coarse sand) should be processed through disintegrator and dust		
	separator in automatic plant including screening of sand to desired		
	specification and washing and cleaning of sand with water by aqua wash		
	technology at quarry site. (For RGF)		
		1 - A 1 - 1	



EW Storage tank, Filter media

5. No.	Description	Unit	Amended Rate (Rs.)
	the second second second second and	Cum	4047.00
12.8 F	Providing and Placing of new filter media as (i) Sand shall be hard and	çum	10
r i	esistant quartz or quartzite and free of clay, fine particles, soft grains		
a	and dirt of any description. (ii) Effective size shall be 0.20 to 0.30 mm.		
1	iii) Uniformity Coefficient not be more than 5.0 nor less than 3.0. (iv)		
l li	gnition loss should not exceed 0.70% by weight. (v) Soluble fraction in		
	HCL acid shall not exceed 7.0% by weight, (vi) Silica content should not		
	The activity of the state of the cravity chall be in the range between 2.55		
	be less than 95% (vii) Specific Gravity shall be in the range between 2.55		
	to 2.65 (viii) Wearing loss shall not exceed 3.0%. and as per		
	specifications given in IS: 8419 (Part-I). (ix) The sand should not contain		
	more than 2% of calcium and manganese calculated as carbonate. Filter	e e e e e e e e e e e e e e e e e e e	
	media (fine sand and coarse sand) should be processed through.		seep Fortel e
	Disintegrator and dust separator in automatic plant including screening		
	Disintegrator and dust separator in automatic plant including of cand with		
	of sand to desired. Specification and washing and cleaning of sand with		
	water by aqua wash technology at quarry site. The sand shall not		
	contain more than 5% acid soluble matter as determined by solubility		
4.4	test in Appendix B of IS: 8419 (Part-I) (Fine sand 0.2 to 0.3mm and		
	coarse sand 1.0 to 1.7mm) (For SSF)		
		$   _{\mathcal{L}_{2}} =    _{\mathcal{L}_{2}} +     _{\mathcal{L}_{2}} +     _{\mathcal{L}_{2}} +                                   $	
12.9	Fixing of pipes for under drainage system including plugging pipes with	RM	32.00
12.0	CM 1:4 on one end and fixing other end in collecting channel with CM		
	1:4 with all Material etc. (Excl. cost of pipes) This job, also, includes		
	Making 4mm dia holes in pipes @15 cm c/c in zig-zag pattern and		
	Making 4mm dia noies in pipes with ciri c/c in zig zog pattern and		
	testing of under drainage system as per instruction of Engineer-in-		
	charge.	RM	26.00
12.10	Removing & Re-fixing of pipes for under drainage system including	TAIVE.	20.00
	cleaning of one end plugged pipes and fixing /embedded in CM 1:4		
	on one end and fixing other end in collecting channel with CIVI 1:4 with		
	all Material etc. (Excl.cost of pipes) This job, also, includes Making 4mm		
	dia holes if required in pipes @15 cm c/c in zig-zag pattern.		
	the testinger autom of filters duly	Each	2.00
12.11	Making 4mm dia hole in pipes of under drainage system of filters duly		
	drilled. Carriage of pipe from stacks to filter site, making two per rows		
	on pipe and points of making holes in Zig-Zag pattern in two hold raw.		
	Making 4mm dia holes with drill machine @ 15cm c/c in zig-zag pattern.		
12.12	Labour charges for screening of old sand (received from filter beds)	Cum	906.00
7 <b>7.7</b> 7	through the standard sieves, washing the sand with HCL acid of required	l	
	concentration as directed by the Engineer- In- Charge, so as to remove		
	concentration as directed by the Engineers in charge, so as to remote		
	all the mud and other deposits from sand grains and then clean with	J	a ser a star
	water till the sand is as neat and clean that it impart no colour to clear	1	
	while washing. It also includes placing this washed filter media (sand) in	1	
	filter beds in layer as instructed by the Engineer- In- Charge. (RGF, SSF)		
	HICE NEWS INTERACTION OF THE ACCOUNT	1.0	
いちら おけり パイ			

EW Storage tank, Filter media

S. No.		Description		Unit	Amende Rate (Rs.
12.13	Labour charges for scr	eening of old gravel (rec	eived from filter l	oeds) Cum	674.00
		lifferent sizes sieves for r			
		n HCL acid of required co			
		harge, so as to remove			
		ains and then clean with v			
		impart no colour to clear			
		inipult no colour to orem.			1
			in laver as instruct	ed by	
	includes placing this wa	shed gravel in filter beds	in layer as instruct	ed by	
		shed gravel in filter beds	in layer as instruct	ed by	
	includes placing this wa	shed gravel in filter beds	in layer as instruct	ed by	
	includes placing this wa	shed gravel in filter beds	in layer as instruct	ed by	$\frac{1}{2}$

### Miscellaneous

S. No.	Description	Unit	Rate (Rs)
13.1	Survey by Electronic Total station/DGPS of villages with a view of preparing		
	"village index plan "indicating roads/ streets, surface and width of road/	· .	
	streets along with places of importance such as Panchayat Bhawan,		
	Hospital, School, Post office, Temple Water Supply structures (GLRs, PSPs,		
	pumping station physical boundary of village north etc. including levels at		
n a star ji Na star star	some important points as per instruction of engineer in charge. Hydraulic		
	Design of Distribution network in Loop/Water Gem/EPANET or any other		
	compatible software. Preparation of Auto CAD Drawing (A-3/A-2) with		
	complete hydraulic design out put details, such as pipe no, node no, pipe		
	length, pressure at node etc. Submission of three sets of colour print		
i ta i			
e de fe	prepared in Auto CAD.		
	For Length Up to 2.5 KM		
<u> </u>			
· · · · ·	Rate for length up to 2.5 km	No.	8000.00
13.1.2	Add extra for length more than 2.5 km	Km	2000.00
13.2	Survey of all properties, preparation of GIS based consumer mapping of		
	consumer water connection database, plotting assets on GIS map etc.	FHTC	42.50
	(Satellite image will be provided by the Department)		
<u></u>		·	
13.3	Data entry of existing FHTCs in rural area under JJM on website		
	ejalshakti.gov.in; work includes visiting the village for collecting basic data		
	consumers like i.e. Aadhar no./ration card/voter ID/BPL card/ PAN	1 FM16	30.00
	card/driving license/passport/Antyodaya card/mobile no. etc. and entering		
	the details on the above website. The cost also includes computer and		
- 1997. - 1997.	operator.		1
3.4	Preparation of DPRs for single and small multi village rural water supply		
	schemes under JJM for Administrative & Financial Sanction and Technical		
	sanction, the work includes:	- 11	
	Survey by Electronic Total station/DGPS of villages with a view of preparing		
	village index plan, existing HW plan and survey for route of rising/ trunk		
· · · ·	mains, indicating roads/ streets, surface and width of road/ streets along		
	with places of importance such as Panchayat Bhawan, Hospital, School, Post	1 1	
en de la compositione esta de la compositione	office, Temple Water Supply structures (GLRs, PSPs, pumping station		· ·
	physical boundary of village north etc. including levels and TBM at		
	important places as per instruction of engineer in charge.	the second	
	Preparation of technical report, forecasting of population and design	1	
	demand, source design, techno-economic design of rising mains, selection		
	and design of pumps sets, capacities of CWR, OHSR etc. complete work as		
	per departmental prevailing guidelines and practice.		
	Hydraulic Design of Distribution network in Loop/Water Gem/EPANET or		
	any other compatible software. Preparation of Auto CAD Drawing (A-3/A-2)		
	with complete hydraulic design output details, such as pipe no, node no,	e e e e	
	pipe length, pressure at node etc.	1	
	The second se	1	1

Miscellaneous

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a

Description	Unit	Rate (Rs)
Preparation of estimate of various components based on prevailing BSRs in		
PHED and non BSR if any with detailed analysis. Preparation of conceptual		
drawings, L-sections for rising mains, HW plan, GA drawings of P.S., ESR,		
CWR. GLSR, valve chambers etc.		· · ·
Printing of DPR in 6 copies, including drawings in appropriate size of paper		
for A&F and technical sanctions separately as per direction of EIC. Reply of	· · · •	
observation raised by department for A&F and TS shall be submitted within		
timeframe as per scope of work.		
Work excludes preparation of Bid document and rates are including GST and		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
all other taxes applicable.		
The DPR shall include all other habitation and main village in a unit.		
For present population 100-500 souls	Per village	28000.00
For present population 501-1500 souls	Per village	32398.00
For present population 1501-4000 souls	Per village	43661.00
For present population above 4001 souls	Per village	44943.00
	<ul> <li>Preparation of estimate of various components based on prevailing BSRs in PHED and non BSR if any with detailed analysis. Preparation of conceptual drawings, L-sections for rising mains, HW plan, GA drawings of P.S., ESR, CWR, GLSR, valve chambers etc.</li> <li>Printing of DPR in 6 copies, including drawings in appropriate size of paper for A&amp;F and technical sanctions separately as per direction of EIC. Reply of observation raised by department for A&amp;F and TS shall be submitted within timeframe as per scope of work.</li> <li>Work excludes preparation of Bid document and rates are including GST and all other taxes applicable.</li> <li>The DPR shall include all other habitation and main village in a unit.</li> <li>For present population 100-500 souls</li> <li>For present population 1501-1500 souls</li> </ul>	DescriptionPreparation of estimate of various components based on prevailing BSRs in PHED and non BSR if any with detailed analysis. Preparation of conceptual drawings, L-sections for rising mains, HW plan, GA drawings of P.S., ESR, CWR, GLSR, valve chambers etc.Printing of DPR in 6 copies, including drawings in appropriate size of paper for A&F and technical sanctions separately as per direction of EIC. Reply of observation raised by department for A&F and TS shall be submitted within timeframe as per scope of work. Work excludes preparation of Bid document and rates are including GST and all other taxes applicable. The DPR shall include all other habitation and main village in a unit.For present population 100-500 soulsPer village Per village For present population 1501-1500 souls

Miscellaneous

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No. D&S/BSR/2022-23/8928-8990 Date: 03/02/2023

## Amendment No.02/BSR-2022

Basic Schedule of Rates (BSR) for year 2022-23 was issued by this office vide office order No. D&S/BSR/2022-23/382-492 dated 05.05.2022 and first amendment was issued vide Amendment No.01/BSR-2022 dated 02.08.2022. Further Amendments in following items are hereby issued:

1. Item of PVC-O pipe of Class 500 PN-12.5 (S No 1.29.2) is added in existing item No. 1.29 of the BSR as below:

S. No.	Description	Unit	Rate	Remarks
	Providing, lowering, laying and			
	jointing in trenches, standard lengths			
가 가려 가 있는 것 같은 것 같은 것 같은 것 같은 것 같은 것 같은 것	ISI marked Rigid PVC-O S/S Pipes (push			가 아파 소리는 성상 
	on joints) as per IS-16647: 2017			
	(amended upto date) with EPDM			
	Gasket seals on joints including all			
	taxes, transportation and freight	1996 - 1997 - 19		
	charges, inspection charges, loading/			
1.29	unloading charges, stacking of pipes,			1 marting
	laying of pipes, including cost of labour			
	and material, specials (Tee, bend etc.),			
	satisfactory hydraulic testing,			
	disinfection etc. complete as per			
	technical specifications and it			
	technical specifications and direction of			
	Engineer-in-charge of following class			
1 20 2	and diameter. (Excluding earth work).			
1.29.2	PVC-O pipe Class 500 PN-12.5			
29.2.1	110 mm dia	RMT	840.00	New
29.2.2	160 mm dia	RMT	1440.00	New
29.2.3	200 mm dia	RMT	1703.00	New

13/02/2023

 In item no. 1.23 of chapter 1 the words "moulded in single piece" shall be replaced by "moulded in single piece / fusion welded"

This order shall be effective with immediate effect.

to colycom 8 03.02.2023

(**Dalip Kumar Gaur**) Chief Engineer (Technical) and TM, RWSSMB, PHED, Raj. Jaipur

No. D&S/BSR/2022-23/ 8928-8990

Date: 93/02/2023

#### **Copy to following:**

- 1. SA to Hon'ble Minister, PHED, Govt. of Rajasthan, Jaipur.
- 2. PS to Addl. Chief Secretary, PHED& GWD, Govt. of Rajasthan, Jaipur.
- 3. MD, JJM, Govt. of Rajasthan, Jaipur.
- 4. Chief Engineer (Rural)/(U&NRW)/(SP)/(Adm.)/JJM/QC, PHED, Jaipur.
- 5. Chief Engineer (P) Jodhpur/ (PMU), RRWS&FMP PHED Nagaur.
- 6. FA&CAO, RWSSMB, PHED, Jaipur.
- 7. Secretary, RWSSMB, PHED Jaipur.
- 8. Addl. Chief Engineer, PHED, ..... (All)
- 9. Superintending Engineer, PHED, .....(All)

Carl Same Carl

Janor 03/02/2023

Superintending Engineer (D&S) O/O Chief Engineer (Technical) and TM, RWSSMB, PHED, Raj. Jaipur