



**BANGALORE WATER SUPPLY &
SEWERAGE BOARD**

**SCHEDULE OF RATES
FOR
2017-18**

**COMPARISON OF
SCHEDULE OF RATES 2016-17
AND
SCHEDULE OF RATES 2017-18**

**Issued by
Chief Engineer (K)
BWSSB, Bengaluru, Karnataka**

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Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
8.3		A021C	All Socketed D.I. Reducers / Tapers 500 X 250 mm	NOS	11179.00	10549	-5.63
8.4		A021D	All Socketed D.I. Reducers / Tapers 500 X 300 mm	NOS	11892.00	11222	-5.63
8.5		A021E	All Socketed D.I. Reducers / Tapers 500 X 350 mm	NOS	13214.00	12469	-5.63
8.6		A021F	All Socketed D.I. Reducers / Tapers 500 X 400 mm	NOS	12361.00	11665	-5.63
8.7		A021G	All Socketed D.I. Reducers / Tapers 500 X 450 mm	NOS	13473.00	12714	-5.63
8.8		A021H	All Socketed D.I. Reducers / Tapers 600 X 150 mm	NOS	11466.00	10820	-5.63
8.9		A021I	All Socketed D.I. Reducers / Tapers 600 X 200 mm	NOS	12198.00	11511	-5.63
8.10		A021J	All Socketed D.I. Reducers / Tapers 600 X 250 mm	NOS	12976.00	12245	-5.63
8.11		A021K	All Socketed D.I. Reducers / Tapers 600 X 300 mm	NOS	13805.00	13027	-5.63
8.12		A021L	All Socketed D.I. Reducers / Tapers 600 X 350 mm	NOS	14686.00	13859	-5.63
8.13		A021M	All Socketed D.I. Reducers / Tapers 600 X 400 mm	NOS	19182.00	18101	-5.63
8.14		A021N	All Socketed D.I. Reducers / Tapers 600 X 450 mm	NOS	20332.00	19186	-5.63
8.15		A021O	All Socketed D.I. Reducers / Tapers 600 X 500 mm	NOS	17970.83	16958	-5.63
9	9.	A025	Supplying Ductile Iron Push on special confirming to IS 9523:2000 - All D.I. Flanged Socketed, D.I. Flanged Spigot, MS End Plates Note : The Rates are inclusive of all taxes, duties & transportation charges				
9.1		A025A	All D.I. Flanged Socketed 100.00 mm	NOS	978.00	923	-5.63
9.2		A025B	All D.I. Flanged Socketed 150.00 mm	NOS	1600.00	1510	-5.63
9.3		A025C	All D.I. Flanged Socketed 200.00 mm	NOS	1600.00	1510	-5.63
9.4		A025D	All D.I. Flanged Socketed 250.00 mm	NOS	3131.00	2955	-5.63
9.5		A025E	All D.I. Flanged Socketed 300.00 mm	NOS	4216.00	3978	-5.63
9.6		A025F	All D.I. Flanged Socketed 350.00 mm	NOS	6271.00	5918	-5.63
9.7		A025G	All D.I. Flanged Socketed 400.00 mm	NOS	7649.00	7218	-5.63
9.8		A025H	All D.I. Flanged Socketed 500.00 mm	NOS	11134.00	10507	-5.63
9.9		A025I	All D.I. Flanged Socketed 600.00 mm	NOS	15786.00	14897	-5.63
9.10		A025J	All D.I. Flanged Spigot 100.00 mm	NOS	1143.00	1079	-5.63
9.11		A025K	All D.I. Flanged Spigot 150.00 mm	NOS	1737.00	1639	-5.63
9.12		A025L	All D.I. Flanged Spigot 200.00 mm	NOS	2628.00	2480	-5.63
9.13		A025M	All D.I. Flanged Spigot 250.00 mm	NOS	3854.00	3637	-5.63
9.14		A025N	All D.I. Flanged Spigot 300.00 mm	NOS	5179.00	4887	-5.63
9.15		A025O	All D.I. Flanged Spigot 350.00 mm	NOS	8130.00	7672	-5.63
9.16		A025P	All D.I. Flanged Spigot 400.00 mm	NOS	10306.00	9725	-5.63
9.17		A025Q	All D.I. Flanged Spigot 450.00 mm	NOS	12239.00	11549	-5.63
9.18		A025R	All D.I. Flanged Spigot 500.00 mm	NOS	17102.00	16138	-5.63
9.19		A025S	All D.I. Flanged Spigot 600.00 mm	NOS	24720.00	23327	-5.63

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
9.20		A025T	MS End Plates 100.00 mm	NOS	707.00	667	-5.63
9.21		A025U	MS End Plates 150.00 mm	NOS	1274.00	1202	-5.63
9.22		A025V	MS End Plates 200.00 mm	NOS	2125.00	2005	-5.63
9.23		A025W	MS End Plates 250.00 mm	NOS	3116.00	2940	-5.63
9.24		A025X	MS End Plates 300.00 mm	NOS	4751.00	4483	-5.63
10	10.	A026	Supplying Ductile Iron Push on special confirming to IS 9523:2000 - All D.I. Flanged Socketed, D.I. Flanged MJ COLLAR				
10.1		A026A	MJ COLLAR 100.00 mm	NOS	2254.00	2127	-5.63
10.2		A026B	MJ COLLAR 150.00 mm	NOS	4065.01	3836	-5.63
10.3		A026C	MJ COLLAR 200.00 mm	NOS	4744.00	4477	-5.63
10.4		A026D	MJ COLLAR 250.00 mm	NOS	7413.00	6995	-5.63
10.5		A026E	MJ COLLAR 300.00 mm	NOS	8757.00	8264	-5.63
10.6		A026F	MJ COLLAR 350.00 mm	NOS	14393.00	13582	-5.63
10.7		A026G	MJ COLLAR 400.00 mm	NOS	17104.01	16140	-5.63
10.8		A026H	MJ COLLAR 450.00 mm	NOS	19786.00	18671	-5.63
10.9		A026I	MJ COLLAR 500.00 mm	NOS	24729.00	23336	-5.63
10.10		A026J	MJ COLLAR 600.00 mm	NOS	31165.00	29409	-5.63

CHAPTER - 2

PIPELINE WORKS FOR WATER SUPPLY & UGD WORKS EXCAVATION

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	1.1	A050	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN ALL KINDS OF SOIL MIXED WITH BOULDERS of 30 cms size, etc. for:				
1.1.	1.1.i.a	A050A	Pipes of all dia. for depth upto 2.0 M in all types of soils Note : If any shoring and strutting, will be paid separately	CUM	155.68	167	7
1.2.	1.1.i.b	A050B	Pipes of all dia. for depth 2.0 to 4.0 M in all types of soils Note : If any shoring and strutting, will be paid separately	CUM	206.08	225	9
1.3.	1.1.i.c	A050C	Pipes of all dia. for depth 4.0 to 6.0 M in all types of soils Note : If any shoring and strutting, will be paid separately	CUM	274.4	293	7
1.4.	1.1.i.d	A050D	Pipes of all dia. for depth 6.0 to 8.0 M in all types of soils Note : If any shoring and strutting, will be paid separately	CUM	333.76	358	7
1.5.	1.1.i.e	A050E	Pipes of all dia. for depth 8.0 to 10.0 M in all types of soils Note : If any shoring and strutting, will be paid separately	CUM	385.28	420	9
1.6.	1.1.i.f	A050F	All types of soils for depth beyond 10 M for every 2 M and part thereof. Note : If any shoring and strutting, will be paid separately	CUM	0	242	NIL
2.	1.1.ii	A055	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN DISINTEGRATED ROCK, SOFT ROCK, SOFT SHALE AND MEDIUM HARD ROCK COMPRISING OF LIME STONE, SAND STONE, HARD SHALE, SCHIEST, FISSURED ROCK without resorting to blast etc. for::				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.1.	1.1.ii.a	A055A	Pipes of all dia. for depth upto 2.0 M Note : If any shoring and strutting, will be paid separately	CUM	366.24	404	10
2.2.	1.1.ii.b	A055B	Pipes of all dia. for depth 2.0 to 4.0 M Note : If any shoring and strutting, will be paid separately	CUM	408.8	460	12
2.3.	1.1.ii.c	A055C	Pipes of all dia. for depth 4.0 to 6.0 M Note : If any shoring and strutting, will be paid separately	CUM	472.64	520	10
2.4	1.1.ii.d	A055D	Pipes of all dia. for depth 6.0 to 8.0 M Note : If any shoring and strutting, will be paid separately	CUM	516.32	581	12
2.5.	1.1.ii.e	A055E	Pipes of all dia. for depth 8.0 to 10.0 M Note : If any shoring and strutting, will be paid separately	CUM	557.76	641	15
2.6.	1.1.ii.f	A055F	Pipes of all dia. for depth beyond 10M for every 2.0 mtrs. Note : If any shoring and strutting, will be paid separately	CUM	0	323	NIL
3.	1.1.iii.	A060	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN HARD LATERITE ROCK OR HARD LATERITE ROCK CONTAINING IRON ORE UPTO 20% BY CHISELING AND TRIMMING TO PROPER SLOPE etc. for::				
3.1.	1.1.iii.a	A060A	Pipes of all dia. for depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	556.64	914	64
3.2.	1.1.iii.b	A060B	Pipes of all dia. for depth 2.0 to 4.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	667.52	1031	54
3.3.	1.1.iii.c	A060C	Pipes of all dia. for depth 4.0 to 6.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	722.4	1152	60
3.4.	1.1.iii.d	A060D	Pipes of all dia. for depth 6.0 to 8.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	777.28	1274	64
3.5.	1.1.iii.e	A060E	Pipes of all dia. for depth 8.0 to 10.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	833.28	1395	67
3.6.	1.1.iii.f	A060F	Pipes of all dia for depth beyond 10M for every 2.0 mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	0	242	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
4.	1.1.iv.	A065	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN HARD LATERITE ROCK CONTAINING IRON ORE ABOVE 20% BY CHISELING AND TRIMMING TO PROPER SLOPE etc. for::				
4.1.	1.1.iv.a	A065A	Pipes of all dia. for depth upto 2.0 Mtr Note : If any shoring and strutting, will be paid separately.	CUM	1181.6	1082	-8
4.2.	1.1.iv.b	A065B	Pipes of all dia. for depth 2.0 to 4.0 Mtr Note : If any shoring and strutting, will be paid separately.	CUM	1239.84	1219	-2
4.3.	1.1.iv.c	A065C	Pipes of all dia. for depth 4.0 to 6.0 Mtr Note : If any shoring and strutting, will be paid separately.	CUM	1298.08	1360	5
4.4.	1.1.iv.d	A065D	Pipes of all dia. for depth 6.0 to 8.0 Mtr Note : If any shoring and strutting, will be paid separately.	CUM	1415.68	1502	6
4.5.	1.1.iv.e	A065E	Pipes of all dia. for depth 8.0 to 10.0 Mtr Note : If any shoring and strutting, will be paid separately.	CUM	1532.26	1643	7
4.6.	1.1.iv.f	A065F	Pipes of all dia for depth beyond 10M for every 2.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	0	283	NIL
5.	1.1.v.	A068	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN HARD ROCK BY CHISELING TO PROPER SLOPE etc. for::				
5.1.	1.1.v.a	A068A	Pipes of all dia. for depth upto 2.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	1469.44	1487	1
5.2.	1.1.v.b	A068B	Pipes of all dia. for depth 2.0 to 4.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	1576.96	1602	2
5.3.	1.1.v.c	A068C	Pipes of all dia. for depth 4.0 to 6.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	1630.72	1723	6
5.4.	1.1.v.d	A068D	Pipes of all dia. for depth 6.0 to 8.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	1683.36	1844	10

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.5.	1.1.v.e	A068E	Pipes of all dia. for depth 8.0 to 10.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	1789.76	1966	10
5.6.	1.1.v.f	A068F	Pipes of all dia for depth beyond 10M for every 2.0 mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	0	242	NIL
6.	1.1.vi.	A070	EXCAVATING FOR PIPE LINE TRENCHES OF REQUIRED WIDTH by mechanical / & manual means including dressing sides, ramming of bottoms, providing barricading, danger lighting, shoring, strutting, dewatering, etc. IN HARD ROCK BY BLASTING TO PROPER SLOPE etc. for::				
6.1.	1.1.vi.a	A070A	Pipes of all dia. for depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	817.6	839	3
6.2.	1.1.vi.b	A070B	Pipes of all dia. for depth 2.0 to 4.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	943.04	998	6
6.3.	1.1.vi.c	A070C	Pipes of all dia. for depth 4.0 to 6.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	985.6	1160	18
6.4.	1.1.vi.d	A070D	Pipes of all dia. for depth 6.0 to 8.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	1068.48	1321	24
6.5.	1.1.vi.e	A070E	Pipes of all dia. for depth 8.0 to 10.0 mtr Note : If any shoring and strutting, will be paid separately.	CUM	1152.5	1483	29
6.6.	1.1.vi.f	A070F	Pipes of all dia for depth beyond 10M for every 2.0 mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	0	323	NIL
7.	1.1.vii.1.	A075	Earth work in excavation for foundations of structures by mechanical means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting, bracing, removal of stumps and other deleterious matter, dressing of sides and leveling of bottom of trenches to the extent required, utilising the available excavated earth locally for the work etc. complete for:				
7.1.	1.1.vii.1.a	A075A	In all types of soils including hard soil for depth upto 3.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	36.96	183	394

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.2.	1.1.vii.1.b	A075B	In ordinary rock not requiring blasting for depth upto 3.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	49.28	209	323
7.3.	1.1.vii.1.c	A075C	In hard rock requiring blasting for depth upto 3.0 Mtrs. Note : If any shoring and strutting, will be paid separately.	CUM	617.12	786	27
8.	1.1.vii.2.	A080	Earth work in EXCAVATION FOR PIPELINE TRENCHES upto 600 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN ORDINARY SOILS / ALL SOILS / HARD SOILS etc. for:				
8.1.	1.1.vii.2.a.a	A080A	Depth upto 2.0 M in all types of soil Note : If any shoring and strutting, will be paid separately.	CUM	0	187	NIL
8.2	1.1.vii.2.a.b	A080B	Depth 2.0 to 4.0 M in all types soils. Note : If any shoring and strutting, will be paid separately.	CUM	50	269	437
9.	1.1.vii.2.b	A082	Earth work in EXCAVATION FOR PIPELINE TRENCHES upto 600 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN ORDINARY ROCKS (NOT REQUIRING BLASTING) etc. for:				
9.1	1.1.vii.2.b.a	A082A	Depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	0	238	NIL
9.2	1.1.vii.2.b.b	A082B	Depth 2.0 to 4.00 M Note : If any shoring and strutting, will be paid separately.	CUM	66	303	360

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
10.	1.1.vii.2.c	A084	Earth work in EXCAVATION FOR PIPELINE TRENCHES upto 600 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN HARD ROCKS (REQUIRING BLASTING) etc. for:				
10.1	1.1.vii.2.c.a	A084A	Depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	0	861	NIL
10.2	1.1.vii.2.c.b	A084B	Depth 2.0 to 4.0 M Note : If any shoring and strutting, will be paid separately.	CUM	827	1044	26
11.	1.1.vii.3.a	A086	Earth work in EXCAVATION FOR PIPELINE TRENCHES 600 mm to 1500 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN ORDINARY SOILS / ALL SOILS / HARD SOILS etc. for:				
11.1.	1.1.vii.3.a.a	A086A	Depth upto 2.0 M in all types of soil Note : If any shoring and strutting, will be paid separately.	CUM	0	187	NIL
11.2.	1.1.vii.3.a.b	A086B	Depth upto 2.0 M in all types of soil Note : If any shoring and strutting, will be paid separately.	CUM	47.04	269	471
12.	1.1.vii.3.b	A088	Earth work in EXCAVATION FOR PIPELINE TRENCHES 600 mm to 1500 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN ORDINARY ROCKS (not requiring blasting) etc. for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
12.1.	1.1.vii.3.b.a	A088A	Depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	0	213	NIL
12.2.	1.1.vii.3.b.c	A088B	Depth 2.0 to 4.0 M Note : If any shoring and strutting, will be paid separately.	CUM	61.6	303	392
13.	1.1.vii.3.c	A090	Earth work in EXCAVATION FOR PIPELINE TRENCHES 600 mm to 1500 mm trench width by mechanical / manual means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, using sight rails & boning rods at every 100 M wherever necessary as directed, removal of stumps and other deleterious matters, dressing of sides & leveling the bottom of trench to the extent required, utilizing the available excavated earth locally for the work etc. complete IN HARD ROCK REQUIRING BLASTING etc. for:				
13.1.	1.1.vii.3.c.a	A090A	Depth upto 2.0 M Note : If any shoring and strutting, will be paid separately.	CUM	0	861	NIL
13.2.	1.1.vii.3.c.b	A090B	Depth 2.0 to 4.0 M Note : If any shoring and strutting, will be paid separately.	CUM	772.8	1044	35
14.	1.2	A095	REFILLING OF EARTH around pipelines, in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering all lead and lift including cost of all labour including consolidation by mechanical means approved by the Engineer in charge, when earth is at suitable moisture content with desired field density upto 95% maximum dry density (modified heavy proctor test) for restoration of roads without settlement including HOM of machineries, complete. (The contractor shall take care while consolidating the earth, so that, pipes laid are not damaged due to mechanical compaction and shall restore the damaged pipes at his own cost, in case of damage) etc. with:				
14.1.	1.2.a	A095A	Approved earth available nearby, lead upto 100 M and lift upto 1.5 M.	CUM	0	103	NIL
14.2.	new	A095B	Approved earth obtained from borrow pits with all lifts and leads, transporting to site within 1 km	CUM	0	160	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
15.	1.3	A100	Extra charges for excavation in all classifications in watery situations or foul conditions may be paid duly obtaining approval from the Chief Engineer as under towards DEWATERING with recuperation upto two meter depth and thereof for:				
15.1.	1.3.1	A100A	Excavated depth upto 2 m	CUM	45.92	61	32
15.2.	1.3.2	A100B	Excavated depth 2 to 4 m	CUM	64.96	91	41
15.3.	1.3.3	A100C	Excavated depth 4 to 6 m	CUM	85.12	122	43
15.4.	1.3.4	A100D	Excavated depth 6 to 8 m	CUM	108.64	152	40
15.5.	1.3.5	A100E	Excavated depth 8 to 10 m	CUM	135.52	213	57
16.	1.4	A105	Cutting road surfaces for pipeline trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc. in the classifications for:				
16.1.	1.4.1	A105A	Macadam Road	CUM	250.88	859	242
16.2.	1.4.2	A105B	Asphalt Road	CUM	459.2	894	95
16.3.	1.4.3	A105C	Cement Concrete Road	CUM	924	1033	12
17.	1.5	A107	Provide bedding for the pipeline trenches in black cotton and rock reaches including watering and consolidation by punners etc. complete with all lead and lift with:				
17.1.	1.5.1	A107A	River Sand	CUM	0	830	NIL
17.2.	1.5.2	A107B	Murrum.	CUM	0	247	NIL
17.3.	1.5.2	A107C	Gravel	CUM	0	570	NIL
18.	1.8	A108A	Provide bedding using approved stone dust / quarry dust of size not exceeding 5.6 mm for the pipe lines trenches including watering and consolidation to 95% proctor density etc. complete with all lead and lifts as per specifications and as directed by the Engineer in charge etc and after obtaining the approval of the Chief Engineer.	CUM	256.97	952	270
19.	1.6	A110	Carting of excavated earth of all types upto a distance mentioned below and re-carting back the earth to the same site by vehicle including loading, unloading charges for to & fro, with all lifts, labour, HOM of machinery etc. complete, after obtaining the approval of the Chief Engineer, for:				
19.1.	1.6.1	A110A	Distance upto 1 KM	CUM	246.4	239	-3
19.2.	1.6.2	A110B	Distance 1 to 2 KM	CUM	267.68	263	-2

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
19.3.	1.6.3	A110C	Distance 2 to 3 KM	CUM	288.96	287	-1
19.4.	1.6.4	A110D	Distance 3 to 4 KM	CUM	309.12	311	1
19.5.	1.6.5	A110E	Distance 4 to 5 KM	CUM	328.16	335	2
19.6.	1.6.6	A110F	Distance above 5 KM for every 1 KM	CUM	17.92	19	7
20.	1.7	A115	Disposal off the excess excavated earth of all types by vehicle including loading, unloading with all lead and lifts, labour, HOM of machineries etc. for:				
20.1.	1.7.1	A115A	Distance upto 1 KM	CUM	123.2	121	-2
20.2.	1.7.2	A115B	Distance of 1 to 2 KM	CUM	134.4	133	-1
20.3.	1.7.3	A115C	Distance of 2 to 3 KM	CUM	144.48	145	0
20.4.	1.7.4	A115D	Distance of 3 to 4 KM	CUM	154.56	157	2
20.5.	1.7.5	A115E	Distance of 4 to 5 KM	CUM	164.64	193	17
20.6.	1.7.6	A115F	Distance above 5 KM for every 1 KM	CUM	8.96	10	7
21.	NEW	A120A	Providing Strutting & Shoring, etc. complete as per Engineers instructions. (Measurements to taken of the face area timbered).	SQM	0	53	NIL
22.	NEW	A120B	Close timbering in case of shafts, wells, cesspits, manhole and the like including strutting, shoring and packing cavities (wherever required) etc. complete as per Engineers instructions. (Measurements to taken of the face area timbered).	SQM	0	108	NIL
23.	8	A120C	Providing Bedding or Backfilling using approved stone dust / quarry dust of size not exceeding 5.6 mm for the pipe line trenches including watering and consolidation to 95% proctor density etc., complete with all lead and lifts as per specification and as directed by the engineer incharge, after obtaining the approval of the Chief Engineer by diamond rope cutting method.	CUM	270	1124	316
24.	9	A120D	Excavation of Hard Rock by diamond rope cutting method. Using machinery like generator (electric), Hitachi (Hydraulic excavator), breaker, compressor and diamond rope with MS Rods etc, complete as per specifications and directions of the Engineer In Charge.	CUM	7174	5256	-27

CHAPTER - 3

WATER SUPPLY WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1	2.1	B005	Laying and jointing GI pipes including earth work in asphalted paved macadamised or gravel roads upto 1.0 M deep including fixing collars, elbows, tees, bends gland cocks and either fittings and threads white lead paint wherever necessary and including all conveyance of materials etc. for:				
1.1	2.1.1	B005A	Pipes of 15 mm to 25 mm dia.	RMT	25.76	29.41	14.17
1.2	2.1.2	B005B	Pipes of 32 mm to 80 mm dia.	RMT	45.92	49.66	8.14
2.	2.2.	B008	Removing GI pipes with earth work excavation and filling in all soils including cutting tar road, gravel road, metal road and cleaning, washing at spot or conveying from work spot to office store including removing all fittings such as collers, elbows, tees, bends, gland cock etc. with cuts and threads for:				
2.1.	2.2.1-3	B008A	Pipes of dia 15 mm to 25 mm	RMT	7	15.9	127.14
2.2.	2.2.4-7	B008B	Pipes of dia 32 mm to 80 mm	RMT	12.04	18.49	53.57
3.	2.3	B010	Providing extra cuts and threads for GI pipes for pumps fittings etc. where the lengths of the line laid is less than 15.00 mtrs with steel saw for :				
3.1.	2.3.1-3	B010A	Pipes of dia 15 mm to 25 mm	NOS	4.48	11.65	160.04
3.2.	2.3.3-7	B010B	Pipes of dia 32 mm to 80 mm	NOS	11.17	20.98	87.82
4.	2.4	B012A	Dismantling the GI fountain and fittings and refixing after cleaning pipe fittings etc. with Cement Concrete 1:2:4 as per specifications.	NOS	34.72	59.01	69.96
5.	2.5/2.38	B012B	Dismantling the Cast Iron fountain and fittings and returning the materials to the stores.	NOS	32.48	60.8	87.19
6.	2.6/2.37	B012C	Removing gland cock with fittings and refixing the same for sizes 15 mm to 65 mm..	NOS	10.08	12.93	28.27
7.	28	B012D	Dismantling the Cast Iron fountain and fittings and returning the materials to the stores.	NOS	32.48	60.8	87.19
8.	2.41	B012E	Painting CI fountain stand and fittings with two coats of approved paint.	NOS	35.84	58.59	63.48
9.	0	B015	Providing and fixing specified fittings and fixtures including necessary tools, preparation, conveyance, loading and unloading etc. for:				
10.	2.7	B015A	Brass stop cocks of 15 mm size	NOS	165.76	189.36	14.24
11.	2.8.1	B015B	15 mm dia NP Stop cocks.	NOS	241.92	279.12	15.38
11.1.	2.8.2	B015C	20 mm dia NP stop cock with accessories	NOS	283.36	323.88	14.30

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
12.	2.9.1	B015D	NP Bib-cocks of 15 mm dia. with accessories	NOS	171.36	198.27	15.70
12.1.	2.9.2	B015E	NP Bib-cocks of 20 mm dia. with accessories.	NOS	182.56	209.49	14.75
13.	2.10.1	B015F	NP Union-15 mm size with accessories	NOS	70.56	95.65	35.56
13.1	2.10.2	B015G	NP Union-20 mm dia with accessories	NOS	99.68	115.96	16.33
14.	2.11	B015H	Bath tub NP cocks 20 mm size with accessories	NOS	422.24	467.62	10.75
15.	2.12.1	B015I	NP Waste Union-32 mm size with accessories	NOS	174.22	196.33	12.69
15.1.	2.12.2	B015J	NP waste union-40 mm size with accessories	NOS	221.76	257.19	15.98
16.	2.12.3	B015K	New washers for all types of taps	NOS	13.44	25.62	90.63
17.	2.13	B017	Labour charges for laying and jointing CI pipes with earth work including fixing collars, elbows, tees, bends, gland cocks and other fittings with cuts and threads, white lead paints wherever necessary, conveying the materials from office to workspot and retuning the surplus materials from workspot to stores (ALL GI pipes and specials will be supplied by the Board free of cost) etc. for:				
17.1.	2.13.1	B017A	15 mm dia. CI pipes & specials.	RMT	5.6	5.83	4.11
17.2.	2.13.2	B017B	20 mm dia. CI pipes & specials.	RMT	6.72	7.39	9.97
17.3.	2.13.3.	B017C	25 mm dia. CI pipes & specials.	RMT	10.08	10.5	4.17
17.4.	2.13.4	B017D	40 mm dia. CI pipes & specials.	RMT	12.3	13.21	7.40
17.5.	2.13.5	B017E	50 mm dia. CI pipes & specials.	RMT	17.92	17.89	-0.17
17.6.	2.13.6	B017F	65 mm dia. CI pipes & specials.	RMT	15.68	17.89	14.09
17.7.	2.13.7	B017G	80 mm dia. CI pipes & specials.	RMT	16.8	17.89	6.49
17.8.	2.13.8	B017H	100 mm dia. CI pipes & specials.	RMT	29.12	29.54	1.44
18.	2.14	B018	Remove GI pipes without earth work excavation and filling in all soils but including cutting in tar roads, gravel roads, metal roads and clearing, washing at spot or conveying from workspot to office store including removal of at fittings such as collars, elbows, tees, bends gland cocks, cuts and threads etc. for:				
18.1.	2.14.1	B018A	GI pipes of 15 mm dia.	RMT	4.48	9.12	103.57
18.2.	2.14.2	B018B	GI pipes of 20 mm dia.	RMT	4.48	9.12	103.57
18.3.	2.14.3	B018C	GI pipes of 25 mm dia.	RMT	5.6	10.33	84.46
18.4.	2.14.4	B018D	GI pipes of 40 mm dia.	RMT	6.72	12.77	90.03
18.5.	2.14.5	B018E	GI pipes of 50 mm dia.	RMT	8.96	11.95	33.37
18.6.	2.14.6	B018F	GI pipes of 65 mm dia.	RMT	11.2	14.66	30.89
18.7.	2.14.7	B018G	GI pipes of 80 mm dia.	RMT	12.32	17.18	39.45

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
19.	2.15	B020	Conveying, lowering and laying of Cast Iron pipes (All classes) carefully from sectional stores to site, rolling and lowering into trenches, laying true to line level and perfect linking at joints including loading and unloading at both destination with an initial lead of 5 K.M etc. for :				
19.1.	2.15.1	B020A	All class of CI pipes of 80 mm dia	RMT	11.2	19.6	75.00
19.2.	2.15.2	B020B	All class of CI pipes of 100 mm dia	RMT	12.32	23.64	91.88
19.3.	0	B020C	All class of CI pipes of 150 mm dia	RMT	0	27.68	NIL
19.4.	2.15.4	B020D	All class of CI pipes of 200 mm dia	RMT	26.88	33.45	24.44
19.5.	2.15.5	B020E	All class of CI pipes of 225 mm dia	RMT	26.88	36.8	36.90
19.6.	2.15.6	B020F	All class of CI pipes of 250 mm dia	RMT	27.12	37.49	38.24
19.7.	2.15.7	B020G	All class of CI pipes of 300 mm dia	RMT	32.48	43.26	33.19
19.8.	2.15.8	B020I	All class of CI pipes of 350 mm dia	RMT	36.96	49.03	32.66
19.9.	2.15.9	B020J	All class of CI pipes of 400 mm dia	RMT	43.68	56.55	29.46
19.10.	2.15.10	B020K	All class of CI pipes of 450 mm dia	RMT	51.52	68.38	32.73
19.11.	2.15.11	B020L	All class of CI pipes of 500 mm dia	RMT	52.64	80.21	52.37
19.12.	2.15.12	B020M	All class of CI pipes of 600 mm dia	RMT	78.4	91.73	17.00
19.14.	2.15.14	B020N	All class of CI pipes of 700 mm dia	RMT	145.6	167.32	14.92
19.15.	2.15.15	B020O	All class of CI pipes of 750 mm dia	RMT	179.2	205.38	14.61
19.16.	2.15.16	B020P	All class of CI pipes of 800 mm dia	RMT	236.32	255.57	8.15
19.17.	2.15.17	B020Q	All class of CI pipes of 900 mm dia	RMT	236.32	276.34	16.93
19.18.	2.15.18	B020R	All class of CI pipes of 1200 mm dia	RMT	364	415.38	14.12
20.	2.16	B022	Conveying carefully PSC (Prestressed Concrete) pipes from sectional stores to workspot through transporting vehicles like lorry etc., including loading unloading at both destinations, stacking at site rolling, lowering into trenches, laying, aligning true to line jointing the ends with rubber rings and giving satisfactory hydraulic test as per relevant IS Code etc. complete with an initial lead of 15 KM. PSC pipes and rubber rings will be supplied free of cost by the Board at stores) for::				
20.1.	new	B022A	375 mm inner dia pipes	RMT	0	120.58	NIL
20.2.	new	B022B	400 mm inner dia pipes	RMT	0	137.51	NIL
20.3.	2.16.1	B022C	450 mm inner dia pipes	RMT	264.32	186.81	-29.32
20.4.	new	B022D	500 mm inner dia pipes	RMT	0	219.61	NIL
20.5.	2.16.2	B022E	600 mm inner dia pipes	RMT	364	281.9	-22.55
20.6.	2.16.3	B022F	700 mm inner dia pipes	RMT	385.28	387	0.45
20.7.	2.16.4	B022G	750 mm inner dia pipes	RMT	400.96	450.15	12.27

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
20.8.	new	B022H	800 mm inner dia pipes	RMT	0	497.15	NIL
20.9.	new	B022J	1000 mm inner dia pipes	RMT	0	836.44	NIL
21.	2.17	B024	Lowering by rolling into trench PSC (Prestressed Concrete) pipes, aligning to line, jointing the ends with rubber rings and giving satisfactory hydraulic test as per relevant IS Code etc. complete with an initial lead of 100 Mtrs. PSC pipes will be supplied at the workspot by the Board and rubber rings will be supplied free of cost by the Board at stores) etc, for::				
21.1.	2.17.1	B024A	450 mm inner dia pipes	RMT	161.28	90.28	-44.02
21.2.	2.17.2	B024B	600 mm inner dia pipes	RMT	196	104.66	-46.60
21.3.	2.17.3	B024C	700 mm inner dia pipes	RMT	229.6	121.46	-47.10
22.	2.18	B026	Conveying carefully Hume Steel specials like bend branches, Tapers, Flanges etc., from sectional Store to work site through transporting vehicle lorry etc., including loading, unloading at both destinations, laying, jointing the ends with PSC pipes etc. with an initial lead of 15 Kms (Hume Steel specials with be supplied free of cost by Board at C.J.F Stores) etc. for:				
22.1.	2.18.a	B026A	450 mm inner dia pipes	NOS	532	352.24	-33.79
22.2.	2.18.b	B026B	600 mm inner dia pipes	NOS	691.04	573.11	-17.07
22.3.	2.18.c	B026C	700 mm inner dia pipes	NOS	745.92	837.39	12.26
22.4.	2.18.d	B026D	750 mm inner dia pipes	NOS	745.92	907.14	21.61
23.	2.19	B028	Attending to leaky joints on PSC (Prestressed Concrete) pipes after removing the damaged rubber gaskets or cement mortar, joints materials etc. and preparing the surface for fresh jointing with cement mortar 1:1 1/2 ratio mixed with rapidite solution at one litre per bag of cement over well caulked spun yarn including the cost of cement, rapidite solution, spun yarn, charges for de-watering, earth work excavation in all types of soils upto 2.5M depth but excluding road cuttings etc. for:				
23.1.	2.19.a	B028A	400 mm dia PSC pipes	NOS	929.6	948.64	2.05
23.2.	2.19.b	B028B	600 mm dia PSC pipes	NOS	1086.4	1136.79	4.64
23.3.	2.19.b	B028C	700 mm dia PSC pipes	NOS	1086.4	1136.79	4.64
24.	2.2	B030	Cutting charges only for cutting CI pipes already laid in the ground with necessary approved tools for:				
24.1	2.20.1	B030A	50 mm dia pipes	NOS	5.6	9.54	70.36
24.2	2.20.2	B030B	65 mm dia pipes	NOS	6.72	9.56	42.26

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
24.3	2.20.3	B030C	80 mm dia pipes	NOS	11.2	13.7	22.32
24.4	2.20.4	B030D	100 mm dia pipes	NOS	13.44	14.31	6.47
24.5	2.20.5	B030E	125 mm dia pipes	NOS	16.8	16.95	0.89
24.6	2.20.6	B030F	150 mm dia pipes	NOS	16.8	16.73	-0.42
24.7	2.20.7	B030G	175 mm dia pipes	NOS	24.64	23.98	-2.68
24.8	2.20.8	B030H	200 mm dia pipes	NOS	28	28.71	2.54
24.9	2.20.9	B030I	225 mm dia pipes	NOS	28	28.71	2.54
24.10	2.20.10	B030K	250 mm dia pipes	NOS	51.52	52.44	1.79
24.11	2.20.11	B030L	300 mm dia pipes	NOS	68.32	66.72	-2.34
24.12	2.20.12	B030M	375 mm dia pipes	NOS	78.4	77.68	-0.92
24.13	2.20.13a	B030N	400 mm dia pipes	NOS	91.84	95.38	3.85
24.14	2.20.13b	B030O	450 mm dia pipes	NOS	109.76	108.84	-0.84
24.15	2.20.14	B030P	600 mm dia pipes	NOS	128.8	125.84	-2.30
24.16	2.20.15	B030Q	700 mm dia pipes	NOS	146.72	143.53	-2.17
24.17	2.20.16	B030R	750 mm dia pipes	NOS	152.32	149.68	-1.73
24.18	2.20.17a	B030S	900 mm dia pipes	NOS	204.96	201.49	-1.69
24.19	2.20.17b	B030T	1200 mm dia pipes	NOS	387.52	381.99	-1.43
25.		B032	Cutting of CI pipes neatly on the surface with necessary approved tools for:				
25.1	2.20.18	B032A	50 mm dia pipes	NOS	4.48	4.78	6.70
25.2	2.20.19	B032B	65 mm dia pipes	NOS	4.48	4.79	6.92
25.3	2.20.20	B032C	80 mm dia pipes	NOS	6.72	6.86	2.08
25.4	2.20.21	B032D	100 mm dia pipes	NOS	11.2	11.95	6.70
25.5	2.20.22	B032E	125 mm dia pipes	NOS	13.44	13.73	2.16
25.6	2.20.23	B032F	150 mm dia pipes	NOS	16.8	16.77	-0.18
25.7	2.20.24	B032G	175 mm dia pipes	NOS	16.8	16.79	-0.06
25.8	2.20.25	B032H	200 mm dia pipes	NOS	19.04	19.15	0.58
25.9	2.20.26	B032I	225 mm dia pipes	NOS	28	27.7	-1.07
25.10	2.20.27	B032J	250 mm dia pipes	NOS	33.6	34.72	3.33
25.11	39K	B032K	300 mm dia pipes	NOS	42.56	43.08	1.22
25.12	2.20.28	B032L	375 mm dia pipes	NOS	48.16	47.94	-0.46
25.13	2.20.29	B032M	400 mm dia pipes	NOS	51.52	50.88	-1.24
25.14	2.20.30a	B032N	450 mm dia pipes	NOS	56	56.22	0.39
25.15	2.20.30b	B032O	600 mm dia pipes	NOS	109.76	95.44	-13.05
25.16	2.20.31	B032P	700 mm dia pipes	NOS	118.72	116.53	-1.84
25.17	2.20.32	B032Q	750 mm dia pipes	NOS	128.8	128.02	-0.61

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
25.18	2.20.33	B032R	900 mm dia pipes	NOS	145.6	149.33	2.56
25.19	2.20.34	B032S	1200 mm dia pipes	NOS	255.36	167.32	-34.48
26.	2.21	B034	Making cement mortar (1:1) and hemp yarn joint for CI pipes including cost of all materials like cement, sand, hemp yarn, water proofing materials, curing for 10 days and giving satisfactory hydraulic test pressure of 60 meters head of water of etc. complete for :				
26.1	2.21.1	B034A	80 mm dia. pipes	NOS	31.22	51.38	64.57
26.2	2.21.2	B034B	100 mm dia. pipes	NOS	37.92	64.45	69.96
26.3	2.21.3	B034C	150 mm dia. pipes	NOS	57.16	79.49	39.07
26.4	2.21.4	B034D	200 mm dia. pipes	NOS	73.45	112.96	53.79
26.5	2.21.5	B034E	225 mm dia. pipes	NOS	92.81	124.66	34.32
26.6	2.21.6	B034F	250 mm dia. pipes	NOS	109.69	129.37	17.94
26.7	2.21.7	B034G	300 mm dia. pipes	NOS	133.58	169.05	26.55
26.8	2.21.8	B034H	350 mm dia. pipes	NOS	171.24	201.88	17.89
26.9	2.21.9	B034I	375 mm dia. pipes	NOS	189.18	218.24	15.36
26.10	2.21.10	B034J	400 mm dia. pipes	NOS	216.2	249.78	15.53
26.11	2.21.11	B034K	450 mm dia. pipes	NOS	279.76	325.49	16.35
26.12	2.21.12	B034L	525 mm dia. pipes	NOS	189.18	393.02	107.75
26.13	2.21.13	B034M	600 mm dia. pipes	NOS	391.9	459.34	17.21
27.	2.22	B036	Jointing of CI pipes with rubber gaskets including cleaning the socket and spigot ends with kerosene oil and applying grease to the spigot and socket end after insertion of rubber gasket, jacking and fixing in perfect condition including giving satisfactory hydraulic test for the pipe line. (CI pipes and rubber gaskets to be supplied by the Board free of cost) etc. for:				
27.1	2.22.1	B036A	80 mm dia. pipes	NOS	8.96	10.75	19.98
27.2	2.22.2	B036B	100 mm dia. pipes	NOS	12.32	12.87	4.46
27.3	2.22.3	B036C	150 mm dia. pipes	NOS	17.92	18.43	2.85
27.4	2.22.4	B036D	200 mm dia. pipes	NOS	28	28.82	2.93
27.5	2.22.5	B036E	250 mm dia. pipes	NOS	40.32	40.31	-0.02
27.6	2.22.6	B036F	300 mm dia. pipes	NOS	56	55.19	-1.45
27.7	2.22.7	B036G	400 mm dia. pipes	NOS	90.72	92.84	2.34
27.8	2.22.8	B036H	450 mm dia. pipes	NOS	120.96	118.14	-2.33
27.9	2.22.9	B036I	500 mm dia. pipes	NOS	162.4	160.07	-1.43
27.10	2.22.10	B036J	600 mm dia. pipes	NOS	218.4	220.17	0.81

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
27.11	2.22.11	B036K	700 mm dia. pipes	NOS	275.52	274.92	-0.22
27.12	2.22.12	B036L	750 mm dia. pipes	NOS	332.64	328.69	-1.19
28.	2.23	B040	Removing the CI valves and its tail piece from the pipe line, cleaning, washing, painting and returning the same to the stores etc. for:				
28.1	2.23.1	B040A	50 mm dia. pipe line	NOS	11.2	18.67	66.70
28.2	2.23.2	B040B	75 mm dia. pipe line	NOS	13.44	22.38	66.52
28.3	2.23.3	B040C	100 mm dia. pipe line	NOS	15.68	24.49	56.19
28.4	2.23.4	B040D	125 mm dia. pipe line	NOS	16.8	28.91	72.08
28.5	2.23.5	B040E	150 mm dia. pipe line	NOS	20.16	32.62	61.81
28.6	2.23.6	B040F	175 mm dia. pipe line	NOS	28	38.45	37.32
28.7	2.23.7	B040G	200 mm dia. pipe line	NOS	30.24	44.27	46.40
28.8	2.23.8	B040H	225 mm dia. pipe line	NOS	35.84	50.09	39.76
28.9	2.23.9	B040I	250 mm dia. pipe line	NOS	39.2	55.91	42.63
28.10	2.23.10	B040J	300 mm dia. pipe line	NOS	42.56	65.25	53.31
28.11	2.23.11	B040K	375 mm dia. pipe line	NOS	56	80.41	43.59
28.12	2.23.12	B040L	400 mm dia. pipe line	NOS	82.88	95.56	15.30
28.13	2.23.13	B040M	450 mm dia. pipe line	NOS	109.76	128.45	17.03
28.14	2.23.14	B040N	600 mm dia. pipe line	NOS	165.76	198.68	19.86
28.15	2.23.15	B040O	700 mm dia. pipe line	NOS	182.56	216.09	18.37
28.16	2.23.16	B040P	750 mm dia. pipe line	NOS	184.8	229.17	24.01
28.17	2.23.17	B040Q	900 mm dia. pipe line	NOS	275.52	327.13	18.73
29.	2.24	B042	Making main bore in CI pipes with approved tools and procedures etc. for:				
29.1	2.24.1	B042A	15 mm dia. bore	NOS	28	29.4	5.00
29.2	2.24.2	B042B	20 mm dia. bore	NOS	31.36	31.71	1.12
29.3	2.24.3	B042C	25 mm dia. bore	NOS	54.88	56.34	2.66
29.4	2.24.4	B042D	40 mm dia. bore	NOS	99.68	97.44	-2.25
29.5	2.24.5	B042E	50 mm dia. bore	NOS	109.76	109.44	-0.29
29.6	2.24.6	B042F	65 mm dia. bore	NOS	136.64	136.09	-0.40
30.	2.25	B044	Removing and cleaning the CI / DI pipes and specials including jointing materials, washing (excluding valves) etc. for:				
30.1	2.25.1	B044A	80 mm dia. pipes & specials	RMT	17.92	18.67	4.19
30.2	2.25.2	B044B	100 mm dia. pipes & specials	RMT	22.4	23.29	3.97
30.3	2.25.3	B044C	150 mm dia. pipes & specials	RMT	29.12	30.4	4.40
30.4	2.25.4	B044D	200 mm dia. pipes & specials	RMT	32.48	33.97	4.59

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
30.5	2.25.5	B044E	250 mm dia. pipes & specials	RMT	36.96	37.45	1.33
30.6	2.25.6	B044F	300 mm dia. pipes & specials	RMT	42.56	43.24	1.60
30.7	2.25.7	B044G	375 mm dia. pipes & specials	RMT	52.64	52.5	-0.27
30.8	2.25.8	B044H	400 mm dia. pipes & specials	RMT	60.48	60.74	0.43
30.9	2.25.9	B044I	450 mm dia. pipes & specials	RMT	64.96	65.51	0.85
30.10	2.25.10	B044J	600 mm dia. pipes & specials	RMT	76.16	74.84	-1.73
30.11	2.25.11	B044K	700 mm dia. pipes & specials	RMT	82.88	81.86	-1.23
30.12	2.25.12	B044L	750 mm dia. pipes & specials	RMT	90.72	88.94	-1.96
30.13	2.25.13	B044M	900 mm dia. pipes & specials	RMT	113.12	110.07	-2.70
31.	2.26	B046	Painting the CI pipes and specials with two coats of bitumastic paint both inside and outside etc. for:				
31.1	2.26.1	B046A	75 mm dia. pipes	RMT	15.68	15.28	-2.55
31.2	2.26.2	B046B	100 mm dia. pipes	RMT	17.92	20.18	12.61
31.3	2.26.3	B046C	150 mm dia. pipes	RMT	29.12	33.63	15.49
31.4	2.26.4	B046D	200 mm dia. pipes	RMT	32.48	42.8	31.77
31.5	2.26.5	B046E	250 mm dia. pipes	RMT	38.08	55.02	44.49
31.6	2.26.6	B046F	300 mm dia. pipes	RMT	42.56	67.25	58.01
31.7	2.26.7	B046G	375 mm dia. pipes	RMT	48.16	85.59	77.72
31.8	2.26.8	B046H	400 mm dia. pipes	RMT	60.48	91.71	51.64
31.9	2.26.9	B046I	450 mm dia. pipes	RMT	78.4	103.93	32.56
31.10	2.26.10	B046J	600 mm dia. pipes	RMT	91.84	149.79	63.10
31.11	2.26.11	B046K	700 mm dia. pipes	RMT	117.6	183.41	55.96
31.12	2.26.12	B046L	750 mm dia. pipes	RMT	146.72	198.7	35.43
31.13	2.26.13	B046M	900 mm dia. pipes	RMT	175.84	250.67	42.56
32.	2.27	B048A	Making drain bore and re-doing as per specifications in corner drain across corners.	NOS	30.24	39.45	30.46
33.	2.28	B050A	Construction of gland cock box cistern with burnt brick in CM 1:6 and plastering with CM 1:3 inside and outside, including conveying and fixing 15 cms size road box, size of cistern to be 25 cms internal. Road box will be supplied department free of cost.	NOS	536.48	629.29	17.30
34.	2.43	B050B	Removing gland cock with fittings, rectify the fault by repairing and refix in the same setup.	NOS	7.84	37.71	380.99
35.	2.44	B050C	Fixing gland cocks of all sizes (15 mm to 65 mm) on existing setup	NOS	5.6	17.7	216.07

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
36.	2.29	B052A	Conveying from the Board's store to workspot Road Box (10 cms to 46 cms) and fixing granite jelly cement concrete 1:3:6, including plastering with CM 1:3 etc. complete all as per specifications and as directed by the Engineer in charge.	NOS	56	104.74	87.04
37.	new	B052B	Removing the RCC road box and conveying it to department stores	NOS	0	86.24	NIL
38.	2.46	B052C	Removing CI road box and refixing as per specifications	NOS	50.4	57.72	14.52
39.	2.30.	B054A	Conveying from the Board's store to workspot RCC Valve box and barrel type Road Box 15 cms and fixing with earth work in all soils, fix the road box and valve box in granite jelly CC 1:3:6 and plaster all over with CM 1:3 etc. complete all as per specifications and as directed by the Engineer in charge. (RCC valve box and 15 cms Road Box to be supplied by the Board.	NOS	151.2	179.76	18.89
39.1	2.31	B056A	Conveying from the Board's store to workspot RCC or CI Manhole frame and cover of 53 cms. dia., cutting the opening to required size and fixing the frame and necessary bolts and nuts in granite jelly CC 1:2:4 and plaster all exposed areas with CM 1:3 all as per specifications and as directed by the Engineer in charge. (RCC / CI manhole frame, cover and fittings to be supplied by the Board.)	NOS	154.56	179.41	16.08
39.2	2.32.a	B058A	Supply and fixing pipeline demarcation stones of size 25cms x 25cms and 60cms deep, one line dressed for 25cms from top, with letters upto 3 nos carved and painted on top etc. complete	NOS	140	148.18	5.84
40.	2.32.b	B060A	Conveying and fixing pipeline demarcation stones of size 25cms x 25cms and 60cms deep as directed by the Engineer in charge etc. complete	NOS	36.96	94.19	154.84
41.	2.33	B062A	Removing and restoring house connections (Labour Charges only)	NOS	225.12	188.54	-16.25
42.	2.34	B063A	Labour charges for conveying and fixing CI valve box for meter, including fixing in CC 1:3:6, 23cms thick, with necessary bolts and nuts etc. complete	NOS	91.84	97.78	6.47
43.	2.35	B063B	Removing the RCC valve box and 15 cms size road box and conveying it to department store.	NOS	78.4	96.22	22.73
44.	2.46	B063C	Removing the RCC valve box and refix the same as specifications	NOS	50.4	82.35	63.39
45.	2.40.a	B064	Conveying CI / DI pipes and specials through transporting vehicles like lorry, trucks etc. as detailed for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
46.	2.40.a.a	B064A	Conveyance including loading and unloading per quintal for distance upto 5.00 KM	K.M	25	70.93	183.72
47.	2.40.a.b	B064B	Conveyance excluding loading and unloading per quintal for distance 5.00 to 10.00 KM	K.M	10	12.03	20.30
48.	2.40.b.b	B064C	Conveyance excluding loading and unloading per quintal for distance beyond 10.00 KM	K.M	4	7.22	80.50
48.1	2.42	B066	Fixing CI / DI specials of mechanical jointing of different sizes after setting into the pipe line system, including cleaning, introducing rubber gasket to proper alignment and lightening with bolts and nuts. The cost includes transportation of materials, tools and plants etc. The CI / DI mechanical specials with bolts, nuts, washers and rubber gaskets etc. will be supplied free of cost by the Board.				
48.2	2.42.a	B066A	For CI/DI mechanical specials of 100 to 200 mm dia.	NOS	67.2	34.51	-48.65
48.3	2.42.b	B066B	For CI/DI mechanical specials of 250 to 400 mm dia.	NOS	84	66.6	-20.71
48.4	2.42.c	B066C	For CI/DI mechanical specials of 450 to 700 mm dia.	NOS	112	104.3	-6.88
49.	2.42.d	B066D	For CI/DI mechanical specials of 750 to 1000 mm dia.	NOS	146.72	169.99	15.86
50.	2.47	B068A	Labour charges for conveying and fixing standard size fire hydrants as per specifications including fixing duck foot bend any hydrants post.	NOS	82.88	93.9	13.30
51.	2.48	B068B	Removing and refixing fire hydrants after cleaning and repainting.	NOS	117.6	140.86	19.78
52.	2.49	B068C	Supplying and fixing post rest slab two line dressing and edges rounded.	NOS	194.88	206.67	6.05
53.	2.50.	B070	Providing house connection with excavation in all types of soils without damaging the other utilities and supplying and laying 25 mm OD MDPE pipe (PE80) manufactured in accordance with ISO 4427 - 1996 with minimum required strength of 8 Mpa, hydraulic design stress of 6.3 Mpa and with minimum wall thickness of 2.3 mm by making the bore of 15 mm dia. Size on the Board's supply mains of 100 mm dia. Using drilling bits or machines only and laying the pipe line at a depth not less than 0.45 mtrs. From the road surface, including providing 40 mm dia. "A" class GI pipe as casing over the MDPE pipe from the bore point and upto the entrance of the premises and removing the stone slab covering of the drain and dismantling the size stone masonry wherever necessary and making bore in the wall of the premises. On entering the premises, connection should be continued with 20 mm GI pipe by				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			making "U" shape for the meter point below the ground level by making pit with sufficient space for the easy installation and removal of the water meter and providing vertical stand pipes on both sides of the mater. The connection should be secured firmly on the Board's main pipe with SS/ Brass ferrule of size 1/2" x 3/4" and fixing the union joint and gate valve / stop cock before the meter point and a reflex valve / non-return valve should be fixed on the connection after the meter point. (All these fixtures should be of standard quality conforming to IS). The compression fittings for MDPE pipes conforming to ISO 14236 and its latest versions. The excavated trench should be refilled with soft selected earth and the dismantled masonry of the drain should be re-constructed with available size stones in CM 1:8 and providing coping in CC 1:3:6 wherever required and the stone slab covering should be refixed in position with pointing in CM 1:3 and also the bored wall of the premises should be re-done to the original position and the rates are inclusive of the cost of all the materials, cement, sand water etc., required for these works. The road surface should be compacted well and brought to the original condition and the excess earth or debris should be disposed off to a distance with an initial lead of 10 Kms. etc. complete for:				
53.1	2.50.a	B070A	For minimum length of 2.0 mtrs.	NOS	2667.84	3560.31	33.45
53.2	2.50.b	B070B	For connection pipe length beyond 2.0 mtrs for every 1 mtr. or part thereof	RMT	376.32	798.3	112.13
54.	2.51	B072	Providing and fixing of non-corrosive Engineering Plastic moulded composite strap saddle with Stainless steel 304 threaded metal inserted for trapping outlet suiting for different sizes of clear bore conforming to IS 554 wide strap with electrometric insulation for proper grip around the DI pipe with SS 304 bolts and nuts. Saddle to have rubber SBR grade 30 'O' ring around the tapping hole. All metal parts shall be made of SS 304 and saddle seal shall be of virgin rubber SBR grade 30/NBR (NSF 61 approved). Fasteners shall be of stainless steel 202 NC rolled threaded. M12 with tightening torque 14-15 Kg-m. For 100 mm dia. pipes:				
54.1	2.51.1	B072A	For 15 mm connections	NOS	685.27	795.5	16.09
54.2	2.51.2	B072B	For 20 mm connections	NOS	764.77	887.5	16.05
54.3	2.51.3	B072C	For 25 mm connections	NOS	898.11	1041.22	15.93

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
55.	2.52	B074	Supplying and fixing of CI SLUICE VALVE of Board approved make conforming to relevant ISS with latest amendments as detailed below for following diameters and types with T.P set and conveying to work site, loading and unloading, stacking etc. with all lead and lift including aligning etc. complete. The rate is inclusive of cost of valve, T.P set, bolts and nuts and rubber insertions, excluding the cost of earth work. CI sluice valve body and seat ring bronze PN 1.0 conforming to IS - 14846 - 2000.				
55.1	2.52.a	B074A	For 100 mm CI sluice valve and accessories	NOS	5744.53	6552.48	14.06
55.2	2.52.b	B074B	For 150 mm CI sluice valve and accessories	NOS	8313.84	9391.14	12.96
55.3	2.52.c	B074C	For 200 mm CI sluice valve and accessories	NOS	13819.53	15068.46	9.04
55.4	2.52.d	B074D	For 250 mm CI sluice valve and accessories	NOS	22836.27	25789.17	12.93
55.5	2.52.e	B074E	For 300 mm CI sluice valve and accessories	NOS	28731.97	32005.05	11.39
55.6	2.52.f	B074F	For 400 mm CI sluice valve and accessories	NOS	59629.75	67600.5	13.37
55.7	2.52.g	B074G	For 450 mm CI sluice valve and accessories	NOS	70706.94	80879.37	14.39
55.8	2.52.h	B074H	For 600 mm CI sluice valve and accessories	NOS	125596.94	143728.2	14.44
56.	2.53	B076	Supplying and fixing DI Resilient seated soft sealing SLUICE VALVE of various dia. with body, bonnet of ductile iron (DI) conforming to IS-1865 and of grade GGG50, shaft of stainless steel, wedge fully rubber lined with EDPM seals of NBR and the valves should be vacuum tight and 100% lead proof with face dimensions as per BS 5163-89 / IS 14846-2000 / DN 3202 F4/F5. The stem sealing should be with toroldal sealing rings (minimum 2 "O" rings). Body and bonut should should be coated with Electrostatically applied Epoxy Power Coating with minimum coating thickness of 250 micron both inside and out side. The rate is inclusive of cost of valve, T.P set, bolts & nuts and rubber insertions etc. but excluding earth work.				
56.1	2.53.a	B076M	For Sluice Valve of PN - 1.6 and 100 mm	NOS	9085.07	10367.28	14.11
56.2	2.53.b	B076N	For Sluice Valve of PN - 1.6 and 150 mm	NOS	13264.67	14888.94	12.25
56.3	2.53.c	B076O	For Sluice Valve of PN - 1.6 and 200 mm	NOS	22807.36	25727.46	12.80
56.4	2.53.d	B076P	For Sluice Valve of PN - 1.6 and 250 mm	NOS	55878.28	62927.37	12.62
56.5	2.53.e	B076Q	For Sluice Valve of PN - 1.6 and 300 mm	NOS	72295.57	81934.05	13.33
56.6	2.53.f	B076R	For Sluice Valve of PN - 1.6 and 400 mm	NOS	154239.7	174190.5	12.93
56.7	2.53.g	B076S	For Sluice Valve of PN - 1.6 and 450 mm	NOS	261329.31	297425.37	13.81
56.8	2.53.h	B076T	For Sluice Valve of PN - 1.6 and 600 mm	NOS	339966.57	388324.2	14.22

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
57.	2.54	B078	Supplying and fixing Wafer type single flange Butterfly valve of Board approved make and conforming to relevant ISS with latest amendments as detailed below of the following diameter and types with TP set and conveying to work site, loading and unloading, stacking etc. with all lead and lift. The rate is inclusive of the cost of valve, TP set, bolts and nuts and excluding earth work.				
57.1	2.54.1	B078A	For Valve of PN - 1.0 and 100 mm	NOS	2291.21	2760.12	20.47
57.2	2.54.2	B078B	For Valve of PN - 1.0 and 150 mm	NOS	2934.5	3321.12	13.17
57.3	2.54.3	B078C	For Valve of PN - 1.0 and 200 mm	NOS	6306.39	7248.12	14.93
57.4	2.54.4	B078D	For Valve of PN - 1.0 and 250 mm	NOS	8835.1	10735.3	21.51
57.5	2.54.5	B078E	For Valve of PN - 1.0 and 300 mm	NOS	11776.43	13751.23	16.77
57.6	2.54.6	B078F	For Valve of PN - 1.0 and 350 mm	NOS	0	20925.3	NIL
57.7	2.54.7	B078G	For Valve of PN - 1.0 and 400 mm	NOS	25274.27	29639.87	17.27
57.8	2.54.8	B078H	For Valve of PN - 1.0 and 450 mm	NOS	31255.18	35137.67	12.42
57.9	2.54.9	B078I	For Valve of PN - 1.0 and 500 mm	NOS	40297.02	45366.95	12.58
57.10	2.54.10	B078J	For Valve of PN - 1.0 and 600 mm	NOS	59292.23	68937.92	16.27
57.	2.54.b.	B079	Supplying and fixing Wafer type single flange Butterfly valve of Board approved make and conforming to relevant ISS with latest amendments as detailed below of the following diameter and types with TP set and conveying to work site, loading and unloading, stacking etc. with all lead and lift. The rate is inclusive of the cost of valve, TP set, bolts and nuts and excluding earth work.				
58.1	2.54.b.1	B079M	For Valve of PN - 1.6 and 100 mm	NOS	2620.12	3321.12	26.75
58.2	2.54.b.2	B079N	For Valve of PN - 1.6 and 150 mm	NOS	3353.96	4443.12	32.47
58.3	2.54.b.3	B079O	For Valve of PN - 1.6 and 200 mm	NOS	8820.58	10053.12	13.97
58.4	2.54.b.4	B079P	For Valve of PN - 1.6 and 250 mm	NOS	10103.73	11296.3	11.80
58.5	2.54.b.5	B079Q	For Valve of PN - 1.6 and 300 mm	NOS	11776.43	13751.23	16.77
58.6	2.54.b.6	B079R	For Valve of PN - 1.6 and 350 mm	NOS	22935.21	23169.3	1.02
58.6	2.54.b.6	B079S	For Valve of PN - 1.6 and 400 mm	NOS	29000.7	33005.87	13.81
58.7	2.54.b.7	B079T	For Valve of PN - 1.6 and 450 mm	NOS	35864.95	41869.67	16.74
58.8	2.54.b.8	B079U	For Valve of PN - 1.6 and 500 mm	NOS	45120.36	52098.95	15.47
58.9	2.54.b.9	B079V	S&F 1F B.fly valve PN 1.6 + acces -600 mm	NOS	66406.79	76161.36	14.69

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
59.	2.54.c	B080	Supplying and fixing of Double Flanged short body BUTTERFLY VALVES of various dia. as per IS BIS 5155/ EN 593 with integral DI seat face with approved soft sealing of PN 10 rated with body and disc of ductile iron (DI) of grade GGG -50, seal retaining ring of AISR 420, shaft of stainless steel, bronze shaft bearings, peripheral disk, seal end 'O' rings of EPDM, double eccentric disk. Body and disk should be coated with electrostatically applied epoxy powder coating with a coating thickness of 250 micron both inside and out side.				
59.1	2.54.c.1	B080A	For Valve of PN - 1.0 and 700 mm	NOS	148993.04	171531.36	15.13
59.2	2.54.c.2	B080B	For Valve of PN - 1.0 and 750 mm	NOS	194344.91	223143.36	14.82
59.3	2.54.c.3	B080C	For Valve of PN - 1.0 and 800 mm	NOS	214457.54	247064.4	15.20
59.4	2.54.c.4	B080D	For Valve of PN - 1.0 and 900 mm	NOS	253968.61	292281	15.09
59.5	2.54.c.5	B080E	For Valve of PN - 1.0 and 1000 mm	NOS	331984.39	380604.84	14.65
59.6	2.54.c.6	B080F	For Valve of PN - 1.0 and 1100 mm	NOS	478504.25	555075.84	16.00
59.7	2.54.c.7	B080G	For Valve of PN - 1.0 and 1200 mm	NOS	577651.84	662238.06	14.64
60.	2.54.d	B081	Supplying and fixing of Double Flanged short body BUTTERFLY VALVES of various dia. as per IS BIS 5155/ EN 593 with integral DI seat face with approved soft sealing of PN 16 rated with body and disc of ductile iron (DI) of grade GGG -50, seal retaining ring of AISR 420, shaft of stainless steel, bronze shaft bearings, peripheral disk, seal end 'O' rings of EPDM, double eccentric disk. Body and disk should be coated with electrostatically applied epoxy powder coating with a coating thickness of 250 micron both inside and out side.				
60.1	2.54.d.1	B081A	For Valve of PN - 1.6 and 700 mm	NOS	163827.84	187239.36	14.29
60.2	2.54.d.2	B081B	For Valve of PN - 1.6 and 750 mm	NOS	213710.04	245583.36	14.91
60.3	2.54.d.3	B081C	For Valve of PN - 1.6 and 800 mm	NOS	235827.69	271748.4	15.23
60.4	2.54.d.4	B081D	For Valve of PN - 1.6 and 900 mm	NOS	304579.52	348381	14.38
60.5	2.54.d.5	B081E	For Valve of PN - 1.6 and 1000 mm	NOS	398181.88	458583.84	15.17
60.6	2.54.d.6	B081F	For Valve of PN - 1.6 and 1100 mm	NOS	566323.91	648201.84	14.46
60.7	2.54.d.7	B081G	For Valve of PN - 1.6 and 1200 mm	NOS	654799.66	753120.06	15.02

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
61.	2.55	B082	Fixing sluice valves (labour charges only) of Board approved make conforming to relevant ISS with latest amendments as detailed below for the following diameter and types with two Nos of MJ collars, two flanged spigots, conveying to work site, loading, unloading, stacking etc. with all lead and lifts, aligning, fixing and testing etc. complete. The rate is excluding the cost of earth work,. The accessories like MJ collars, TP sets, Bolts and nuts and rubber insertions to be supplied by the department.				
61.1	2.55.a	B082A	For sluice valve with accessories - 100 mm dia.	NOS	250.31	269.28	269.28
61.2	2.55.b	B082B	For sluice valve with accessories - 150 mm dia.	NOS	250.31	302.94	21.03
61.3	2.55.c	B082C	For sluice valve with accessories - 200 mm dia.	NOS	416.04	482.46	15.96
61.4	2.55.d	B082D	For sluice valve with accessories - 250 mm dia.	NOS	416.04	544.17	30.80
61.5	2.55.e	B082E	For sluice valve with accessories - 300 mm dia.	NOS	997.81	1150.05	15.26
61.6	2.55.f	B082F	For sluice valve with accessories - 400 mm dia.	NOS	997.81	1402.5	40.56
61.7	2.55.g	B082G	For sluice valve with accessories - 450 mm dia.	NOS	3746.08	3461.37	-7.60
61.8	2.55.h	B082H	For sluice valve with accessories - 600 mm dia.	NOS	3998.95	4600.2	15.04
62.	2.56	B083	Supplying and fixing kinetic AIR VALVE for automatic discharge of accumulate air during working condition, conforming to IS 14845 / EN 1074-4. Body and bonnet of DI conforming to IS-1865 of grade GGG-50, seals are made of approved EPDM, SS 304 float, guide and internals. Flange drilling according to IS-1538 etc. complete. Body and bonnet shall be coated with electrostatically applied epoxy powder coating with a coating thickness of 250 micron both inside and outside.				
62.1	2.56.a	B083A	For Air Valves of 100 mm dia.	NOS	15091.08	16959.37	12.38
62.2	2.56.b	B083B	For Air Valves of 150 mm dia.	NOS	21425.24	23361.7	9.04
62.3	2.56.c	B083C	For Air Valves of 200 mm dia.	NOS	23625.81	26732.32	13.15
63.	2.57	B084	Labour Charges only for fixing double / isolated AIR VALVES (CI tamper proof of PN 1.6) of Board approved make conforming to ISS 14845 - 2000 and as detailed below with required stub and flange, conveying to work site, loading, unloading, stacking, with all lead and lifts, alignment, fixing and testing etc. complete. The rate is excluding the cost of earth work. The Air Valve, stub, flanges, TP sets, Bolts and nuts, rubber insertions etc. to be supplied by the Department.				
63.1	2.57.a	B084A	For Air Valves of 100 mm dia.	NOS	328.16	342.21	4.28

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
63.2	2.57.b	B084B	For Air Valves of 150 mm dia.	NOS	328.16	342.21	4.28
63.3	new	B084C	For Air Valves of 200 mm dia.	NOS	0	342.21	NIL
64	2.6	B088	Supplying and fixing DI MJ specials such as branches and bends suitable for DI K7 and K9 pipes and CI LA class pipes, as per IS 13382 with latest amendments with complete accessories and fixing at site excluding earth work but including loading, unloading, freight charges etc. complete for:				
64.1	2.60.a	B088A	DI MJ specials - Branch 100 x 100 mm	NOS	1694.98	1802.21	6.33
64.2	2.60.b	B088B	DI MJ specials - Branch 150 x 150 mm	NOS	2613.15	2924.21	11.90
64.3	2.60.c	B088C	DI MJ specials - Branch 150 x 100 mm	NOS	2493.31	2475.41	-0.72
64.4	2.60.d	B088D	DI MJ specials - Bend 100 x 90 degree mm	NOS	1218.43	1241.21	1.87
64.5	2.60.e	B088E	DI MJ specials - Bend 100 x 45 degree mm	NOS	1213.71	1241.21	2.27
64.6	2.60.f	B088F	DI MJ specials - Bend 150 x 90 degree mm	NOS	2219.65	2475.41	11.52
64.7	2.60.g	B088G	DI MJ specials - collar 100 mm dia.	NOS	2247.96	2423.79	7.82
64.8	2.60.h	B088H	DI MJ specials - collar 150 mm dia.	NOS	3956.92	4455.74	12.61
65.	2.61	B090	Providing, fabricating, supplying and fixing at site various diameter MS MJ ends with dummy plates (END CAPS) to suit CI / DI spigots end as per the sketch. The cost is inclusive of all materials, i.e, rubber 'O' rings, flanges, bolts and nuts, dummy plates, consumables, hire charges, tools and welding equipments, lead and lifts, etc. complete as per the instructions of Engineer in charge.				
65.1	2.61.a	B090A	For CI / DI pipes of 100 mm dia.	NOS	1235.2	1280.43	3.66
65.2	2.61.b	B090B	For CI / DI pipes of 150 mm dia.	NOS	1715.41	1729.23	0.81
65.3	2.61.c	B090C	For CI / DI pipes of 200 mm dia.	NOS	2341.08	2514.63	7.41
65.4	2.61.d	B090D	For CI / DI pipes of 250 mm dia.	NOS	3369.21	3547.54	5.29
65.5	2.61.e	B090E	For CI / DI pipes of 300 mm dia.	NOS	3528.09	3659.74	3.73
65.6	2.61.f	B090F	For CI / DI pipes of 400 mm dia.	NOS	5119.35	5679.34	10.94
65.7	2.61.g	B090G	For CI / DI pipes of 450 mm dia.	NOS	5675.16	6240.34	9.96
65.8	2.61.h	B090H	For CI / DI pipes of 600 mm dia.	NOS	7363.36	8484.34	15.22
65.9	2.61.i	B090I	For CI / DI pipes of 700 mm dia.	NOS	8906.23	10167.34	14.16
65.10	2.61.j	B090J	For CI / DI pipes of 900 mm dia.	NOS	13019.62	14678.45	12.74

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
66.	NEW	B095A	Providing and fixing Fixed Extension spindle rods PN 10/16 for 50 - 400 mm dia. gate valves. The spindle rod will consist of epoxy coated square bar, DI bottom adaptor, DI spindle cap, (epoxy coated / galvanized), PVC protection tube, HDPE top and bottom cover, HDPE bottom connector, zinc coated bolts and electro galvanized split pin. The work will include necessary excavation, safety factors for the works involved, back filling etc. as per the directions of the Engineer-in-charge etc.	RMT	0	5648.75	NIL
67	NEW	B097A	Supplying and fixing surface box of required dia. and size with synthetic lid for valves or spindle rods. The surface box should be usable for 50 to 400 mm dia. valves, PN 10 / 16 and will consist of lid, housing, locking clip, notched bolt, cross bar, washer and torque nut.	RMT	0	3606.71	NIL
68.	2.62	B100A	Cutting Asphalt Concrete road surface for leakage pits with earth work excavation in all classifications of soil including all lead and lifts bailing out water with pumps including barricading, danger lighting etc., as per requirement and disposing of the excavated stuff as directed. After attending the leak, refilling the trench for 30 cm depth quarry dust above and around pipelines and balance with available earth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming including watering and consolidation by mechanical means approved by Engineer Incharge. (Work to be carried out as per leak repair manual and the rate includes hire charges of dewatering Pump, tractor, Jeep with all kinds of Labour in a Complete manner).	CUM	883	884.14	0.13

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
69.	2.63	B110A	Road Reinstatement of Asphalt and concrete roads after leak attending with earth work excavation of compacted oil depositing on bank with all bad and lifts including danger lighting and barricading. Providing, laying, spreading and compacting graded stones aggregate as per wet mix macadam specifications. Applying tack coat on granular base such as WBM and WMM surface hot bitumen primer at 4 kg per 10 sqm, heating bitumen in layer to be laid with boiler fitted with spray set of 300 mm thickness. Above laid with bituminous concrete or M20 concrete premixed with bituminous binder at 5.4 to 5.6% of mix and filler, to achieve the desired compaction to give minimum of 45 mm thickness compacted. The work shall be carried as per leak repair manual and includes all kinds of materials disposing off the excess excavated Earth with all lead and lifts by vehicle including loading, unloading, labour, HOM of machinery etc. in a complete manner.	SQM	1160.9	1161.27	0.03
70.	NEW	B115A	Conveying the 8.0 cms, G.I pipe from office to workspot and fixing in granite jelly CC 1:3:6 making two bores to take in fountain pipes fitting the C.I pipe with granite jelly cement of C.I pipe with granite jelly cement concrete 1:3:6 and painting outside 2 coats of approved paint etc.	EACH	0	83.03	NIL
71.	NEW	B115B	Conveying C.I /DI pipes and specials and other materials of water supply and sanitary work carefully from store to workspot including loading and unloading and vice verse by bullock carts per quintal 0 to 10 km.	K.M	0	39.27	NIL

CHAPTER - 4

ATTENDING LEAKS ON WATER SUPPLY LINES

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1	2.58	C010	Supplying CI/DI pipes socket leak repair MJ clamps for attending to leak joints in socket / spigot joints of CI / DI pipes with necessary earth work excavation including using of pneumatic breakers and JCB excavator wherever required and providing DI MJ leak repair clamp, including cost of all materials required for jointing comprising of DI MJ clamps and its accessories such as rubber gaskets made of SBR / EPDM on the socket face, making the socket / spigot joint water tight at the operating pressure, backfilling with available earth and consolidation and bailing out water wherever necessary etc. complete inclusive of all taxes, duties, etc. and In all types of road surfaces like Concrete, Asphalt roads etc, for:				
1.1	2.58.a	C010A	CI / DI pipes of 100 mm dia.	NOS	2473.72	2748.9	11.12
1.2	2.58.b	C010B	CI / DI pipes of 150 mm dia.	NOS	3753.7	4207.5	12.09
1.3	2.58.c	C010C	CI / DI pipes of 200 mm dia.	NOS	4214.24	4712.4	11.82
1.4	2.58.d	C010D	CI / DI pipes of 250 mm dia.	NOS	5507.53	6171	12.05
1.5	2.58.e	C010E	CI / DI pipes of 300 mm dia.	NOS	6852.58	7629.6	11.34
1.6	2.58.f	C010F	CI / DI pipes of 400 mm dia.	NOS	9191.22	10546.8	14.75
1.7	2.58.g	C010G	CI / DI pipes of 450 mm dia.	NOS	11941.97	13351.8	11.81
2.	2.59	C020	Attending to leaking socket / spigots joints in CI / DI pipes in all types of road surfaces including concrete and asphalt roads, with necessary earth work excavation including using of pneumatic breakers and JCB excavator wherever required for jointing DI MJ clamp and its accessories such as rubber gaskets made of SBR / EPDM on the socket face, making the socket / spigot joint water tight at the operating pressure, backfilling with available earth and consolidation and bailing out water wherever necessary etc. complete inclusive of all taxes, duties, etc. The FDI MJ clamps, including other materials required for attending leaks to be supplied by the Board.				
2.1	2.59.a	C020A	For CI / DI pipes of 100 mm dia.	NOS	738.99	841.5	13.87

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.2	2.59.b	C020B	For CI / DI pipes of 150 mm dia.	NOS	817.2	953.7	16.70
2.3	2.59.c	C020C	For CI / DI pipes of 200 mm dia.	NOS	857.78	1009.8	17.72
2.4	2.59.d	C020D	For CI / DI pipes of 250 mm dia.	NOS	936.11	1122	19.86
2.5	2.59.e	C020E	For CI / DI pipes of 300 mm dia.	NOS	1225.81	1458.6	18.99
2.6	2.59.f	C020F	For CI / DI pipes of 400 mm dia.	NOS	1378.68	1570.8	13.94
2.7	2.59.g	C020G	For CI / DI pipes of 450 mm dia.	NOS	1378.68	1570.8	13.94

CHAPTER - 5

BAR WRAPPED STEEL CYLINDER PIPES

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	3.1	D010	<p>Providing and supplying confirming to BIS 15155:2002 (Bar wrapped steel cylinder pipes suitable for overlapping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, cost of all taxes (Central and State Govt.), inspection charges, transportation to stores / site, transit insurance, loading and unloading and stacking etc. complete</p> <p>i. Factory test Pressure: (a) Site test pressure +0.1 N/mm², for working pressure upto 1 N/mm² (b) Site test pressure +0.2 N/mm², for working pressure upto 1 N/mm²</p> <p>ii. Site test pressure - 1.5 times working pressure pertaining to the section for 1.1 times static pressure, whichever is more (Such a pressure is to be controlled within 25% of pump head in case of pumping main)</p> <p>iii. Working Pressure - The maximum sustained internal pressure excluding surge to which each portion of pipe line may be subjected when installed. All test pressure shall be replaced by Factory test pressure.</p> <p>Note : 1. Class mentioned below represents the working pressure of pipe. Note: 2. For external coating at site to the joints, necessary polyethene wrapping for pouring cement slurry shall also be given free with each pipe. For pipes with Factory Test Pressure of 6 kg/smt.</p>				
1.1	3.1.a.1	D010A	300 mm dia pipe	RMT	2890.41	3102.33	7.33
1.2	3.1.a.2	D010B	350 mm dia pipe	RMT	3245.23	3734.02	15.06
1.3	3.1.a.3	D010C	400 mm dia pipe	RMT	3558.52	4061.64	14.14
1.4	3.1.a.4	D010D	450 mm dia pipe	RMT	3936.93	4431.90	12.57
1.5	3.1.a.5	D010E	500 mm dia pipe	RMT	4385.16	4998.51	13.99
1.6	3.1.a.6	D010F	600 mm dia pipe	RMT	5701.56	6485.16	13.74
1.7	3.1.a.7	D010G	700 mm dia pipe	RMT	6585.77	7526.38	14.28
1.8	3.1.a.8	D010H	800 mm dia pipe	RMT	7151.01	8145.72	13.91
1.9	3.1.a.9	D010I	900 mm dia pipe	RMT	9991.41	10961.94	9.71
1.10	3.1.a.10	D010J	1000 mm dia pipe	RMT	11512.59	13099.35	13.78
1.11	3.1.a.11	D010K	1100 mm dia pipe	RMT	16544.15	18490.56	11.76

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.12	3.1.a.12	D010L	1200 mm dia pipe	RMT	18449.39	20592.07	11.61
1.13	3.1.a.13	D010M	1300 mm dia pipe	RMT	21542.69	24089.34	11.82
1.14	3.1.a.14	D010N	1400 mm dia pipe	RMT	23107.27	26411.88	14.30
1.15	3.1.a.15	D010O	1500 mm dia pipe	RMT	24661.47	28005.12	13.56
1.16	3.1.a.16	D010P	1600 mm dia pipe	RMT	26566.71	30518.40	14.87
1.17	3.1.a.17	D010Q	1700 mm dia pipe	RMT	28184.13	32336.04	14.73
1.18	3.1.a.18	D010R	1800 mm dia pipe	RMT	30091.26	34411.74	14.36
2.	3.1.b.	D020	<p>Providing and supplying confirming to BIS 15155:2002 (Bar wrapped steel cylinder pipes suitable for overlapping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, cost of all taxes (Central and State Govt.), inspection charges, transportation to stores / site, transit insurance, loading and unloading and stacking etc. complete</p> <p>i. Factory test Pressure: (a) Site test pressure +0.1 N/mm², for working pressure upto 1 N/mm² (b) Site test pressure +0.2 N/mm², for working pressure upto 1 N/mm²</p> <p>ii. Site test pressure - 1.5 times working pressure pertaining to the section for 1.1 times static pressure, whichever is more (Such a pressure is to be controlled within 25% of pump head in case of pumping main)</p> <p>iii. Working Pressure - The maximum sustained internal pressure excluding surge to which each portion of pipe line may be subjected when installed. All test pressure shall be replaced by Factory test pressure.</p> <p>Note : 1. Class mentioned below represents the working pressure of pipe. Note: 2. For external coating at site to the joints, necessary polyethene wrapping for pouring cement slurry shall also be given free with each pipe. For pipes with Factory Test Pressure of 12kg/smt.</p>				
2.1	3.1.b.1	D020A	300 mm dia pipe	RMT	2897.02	3169.65	9.41
2.2	3.1.b.2	D020B	350 mm dia pipe	RMT	3254.66	3734.02	14.73
2.3	3.1.b.3	D020C	400 mm dia pipe	RMT	3567.96	4061.64	13.84
2.4	3.1.b.4	D020D	450 mm dia pipe .	RMT	3947.31	4488.00	13.70
2.5	3.1.b.5	D020E	500 mm dia pipe	RMT	4425.74	4998.51	12.94
2.6	3.1.b.6	D020F	600 mm dia pipe	RMT	5742.14	6485.16	12.94
2.7	3.1.b.7	D020G	700 mm dia pipe	RMT	6626.34	7526.38	13.58

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.8	3.1.b.8	D020H	800 mm dia pipe	RMT	8194.70	9402.36	14.74
2.9	3.1.b.9	D020I	900 mm dia pipe	RMT	10014.06	11433.18	14.17
2.10	3.1.b.10	D020J	1000 mm dia pipe	RMT	12448.69	14277.45	14.69
2.11	3.1.b.11	D020K	1100 mm dia pipe	RMT	16585.67	18490.56	11.49
2.12	3.1.b.12	D020L	1200 mm dia pipe	RMT	18490.91	21153.07	14.40
2.13	3.1.b.13	D020M	1300 mm dia pipe	RMT	21585.15	24201.54	12.12
2.14	3.1.b.14	D020N	1400 mm dia pipe	RMT	23149.73	26411.88	14.09
2.15	3.1.b.15	D020O	1500 mm dia pipe	RMT	24964.28	28465.14	14.02
2.16	3.1.b.16	D020P	1600 mm dia pipe	RMT	27616.65	31371.12	13.59
2.17	3.1.b.17	D020Q	1700 mm dia pipe .	RMT	29891.20	34108.80	14.11
2.18	3.1.b.18	D020R	1800 mm dia pipe	RMT	33244.95	38080.68	14.55
3.	3.1.c	D030	<p>Providing and supplying confirming to BIS 15155:2002 (Bar wrapped steel cylinder pipes suitable for overlapping steel welded joint or butt welded steel joints) of following class and diameter including cost of all material and labour required, cost of all taxes (Central and State Govt.), inspection charges, transportation to stores / site, transit insurance, loading and unloading and stacking etc. complete.</p> <p>i. Factory test Pressure:</p> <p>(a) Site test pressure +0.1 N/mm², for working pressure upto 1 N/mm²</p> <p>(b) Site test pressure +0.2 N/mm², for working pressure upto 1 N/mm²</p> <p>ii. Site test pressure - 1.5 times working pressure pertaining to the section for 1.1 times static pressure, whichever is more (Such a pressure is to be controlled within 25% of pump head in case of pumping main)</p> <p>iii. Working Pressure - The maximum sustained internal pressure excluding surge to which each portion of pipe line may be subjected when installed. All test pressure shall be replaced by Factory test pressure.</p> <p>Note : 1. Class mentioned below represents the working pressure of pipe.</p> <p>Note: 2. For external coating at site to the joints, necessary polyethene wrapping for pouring cement slurry shall also be given free with each pipe. For pipes with Factory Test Pressure of 18 kg/smt.</p>				
3.1	3.1.c.1	D030A	300 mm dia pipe	RMT	2907.00	3214.53	10.58
3.2	3.1.c.2	D030B	350 mm dia pipe	RMT	3265.04	3705.97	13.50
3.3	3.1.c.3	D030C	400 mm dia pipe	RMT	3628.35	4095.30	12.87

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.4	3.1.c.4	D030D	450 mm dia pipe	RMT	4227.57	4802.16	13.59
3.5	3.1.c.5	D030E	500 mm dia pipe	RMT	4978.72	5694.15	14.37
3.6	3.1.c.6	D030F	600 mm dia pipe	RMT	6511.22	7416.42	13.90
3.7	3.1.c.7	D030G	700 mm dia pipe	RMT	8559.89	9781.60	14.27
3.8	3.1.c.8	D030H	800 mm dia pipe	RMT	10098.05	11152.68	10.44
3.9	3.1.c.9	D030I	900 mm dia pipe	RMT	12487.38	14193.30	13.66
3.10	3.1.c.10	D030J	1000 mm dia pipe	RMT	15233.42	17138.55	12.51
3.11	3.1.c.11	D030K	1100 mm dia pipe	RMT	18332.38	20723.34	13.04
3.12	3.1.c.12	D030L	1200 mm dia pipe	RMT	21359.62	24193.69	13.27
3.13	3.1.c.13	D030M	1300 mm dia pipe	RMT	25361.66	28667.10	13.03
3.14	3.1.c.14	D030N	1400 mm dia pipe	RMT	28982.46	32975.58	13.78
3.15	3.1.c.15	D030O	1500 mm dia pipe	RMT	32012.54	36285.48	13.35
3.16	3.1.c.16	D030P	1600 mm dia pipe	RMT	36312.77	41154.96	13.33
3.17	3.1.c.17	D030Q	1700 mm dia pipe	RMT	40273.29	45867.36	13.89
3.18	3.1.c.18	D030R	1800 mm dia pipe	RMT	44576.35	50893.92	14.17

CHAPTER - 6
SUPPLYING AND LAYING OF
DUCTILE IRON (DI) PIPE

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% increas. / decres.
1.	4.1.1	E010	Providing and laying Ductile iron pipes of class-K7 conforming to IS 8329:2000 with latest amendments, conveying to work site, rolling and lowering into trenches, laying true to line, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations, cutting of pipes wherever necessary, jointing with DI specials (excluding cost of specials) and rubber gaskets, cleaning the socket and spigot end with soap solution, applying soft soap to the socket and spigot ends before insertion of rubber gaskets, jacking and fixing in perfect conditions etc. The cost to include soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lifts and cost of all jointing materials. (The contractor will make his own arrangements for water for testing. Earth work excavation in trenches and jointing of pipes to be measured and paid for separately) Note: In sewerage projects for internal cement mortar lining (CML) of DI pipes, if High Alumina Cement (HAC) as recommended in Annexure B clause 16.3 of IS8329:2000 is considered in place of Slag or Sulphate Resistance Cement (SRC), the cost of pipes may be increased by 5-6% from the prices listed above.				
1.1	4.1.1.1	E010A	100 mm dia pipe	RMT	1082.88	1181.90	9.14
1.2	4.1.1.2	E010B	150 mm dia pipe	RMT	1585.07	1704.69	7.55
1.3	4.1.1.3	E010C	200 mm dia pipe	RMT	2003.87	2200.84	9.83
1.4	4.1.1.4	E010D	250 mm dia pipe	RMT	2634.64	2885.36	9.52
1.5	4.1.1.5	E010E	300 mm dia pipe	RMT	3341.89	3642.91	9.01
1.6	4.1.1.6	E010F	350 mm dia pipe	RMT	4144.28	4535.73	9.45
1.7	4.1.1.7	E010G	400 mm dia pipe	RMT	4994.43	5441.24	8.95
1.8	4.1.1.8	E010H	450 mm dia pipe	RMT	5921.61	6405.46	8.17
1.9	4.1.1.9	E010I	500 mm dia pipe	RMT	6878.34	7528.72	9.46
1.10	4.1.1.10	E010J	600 mm dia pipe	RMT	9118.28	9921.20	8.81
1.11	new'	E010K	700 mm dia pipe	RMT	0.00	12318.98	NIL
1.12	new	E010L	800 mm dia pipe	RMT	0.00	15906.33	NIL
1.13	new	E010M	900 mm dia pipe	RMT	0.00	19295.80	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.14	new	E010N	1000 mm dia pipe	RMT	0.00	23974.08	NIL
1.15	new	E010O	1100 mm dia pipe	RMT	0.00	28514.52	NIL
2.	4.1.2	E020	Providing and laying Ductile iron pipes of class-K9 conforming to IS 8329:2000 with latest amendments, conveying to work site, rolling and lowering into trenches, laying true to line, level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations, cutting of pipes wherever necessary, jointing with DI specials (excluding cost of specials) and rubber gaskets, cleaning the socket and spigot end with soap solution, applying soft soap to the socket and spigot ends before insertion of rubber gaskets, jacking and fixing in perfect conditions etc. The cost to include soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS with all lead and lifts and cost of all jointing materials. (The contractor will make his own arrangements for water for testing. Earth work excavation in trenches and jointing of pipes to be measured and paid for separately) Note: In sewerage projects for internal cement mortar lining (CML) of DI pipes, if High Alumina Cement (HAC) as recommended in Annexure B clause 16.3 of IS8329:2000 is considered in place of Slag or Sulphate Resistance Cement (SRC), the cost of pipes may be increased by 5-6% from the prices listed above.				
2.1	4.1.2.1	E020A	100 mm dia pipe	RMT	1242.21	1359.18	9.42
2.2	4.1.2.2	E020B	150 mm dia pipe	RMT	1824.86	1954.90	7.13
2.3	4.1.2.3	E020C	200 mm dia pipe	RMT	2357.51	2589.05	9.82
2.4	4.1.2.4	E020D	250 mm dia pipe	RMT	3147.77	3460.95	9.95
2.5	4.1.2.5	E020E	300 mm dia pipe	RMT	3993.44	4372.21	9.48
2.6	4.1.2.6	E020F	350 mm dia pipe	RMT	4928.06	5489.43	11.39
2.7	4.1.2.7	E020G	400 mm dia pipe	RMT	5950.16	6592.41	10.79
2.8	4.1.2.8	E020H	450 mm dia pipe	RMT	7108.62	7855.09	10.50
2.9	4.1.2.9	E020I	500 mm dia pipe	RMT	8213.08	9118.60	11.03
2.10	4.1.2.10	E020J	600 mm dia pipe	RMT	10899.34	12014.85	10.23
2.11	new	E020K	700 mm dia pipe	RMT	0.00	13874.07	NIL
2.12	new	E020L	800 mm dia pipe	RMT	0.00	17272.93	NIL
2.13	new	E020M	900 mm dia pipe	RMT	0.00	20939.53	NIL
2.14	new	E020N	1000 mm dia pipe	RMT	0.00	24958.07	NIL
2.15	new	E020O	1100 mm dia pipe	RMT	0.00	32184.40	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.	new	E030	Providing TYTON (Push-on) joints to cast iron pipes or Ductile iron pipes, with rubber gaskets including cleaning the socket & spigot ends with soap solution and applying soft soap to the spigot & socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including the cost of soap solution, soft soap, waste etc and giving necessary hydraulic test to the pressure as per ISS. etc. for : (contractor will make his own arrangements for procuring water for testing)				
3.1	new	E030A	For pipes of 100 mm dia.	RMT	0.00	91.55	NIL
3.2	new	E030B	For pipes of 150 mm dia.	RMT	0.00	121.53	NIL
3.3	new	E030C	For pipes of 200 mm dia.	RMT	0.00	183.53	NIL
3.4	new	E030D	For pipes of 250 mm dia.	RMT	0.00	225.57	NIL
3.5	new	E030E	For pipes of 300 mm dia.	RMT	0.00	298.68	NIL
3.6	new	E030F	For pipes of 350 mm dia.	RMT	0.00	346.95	NIL
3.7	new	E030G	For pipes of 400 mm dia.	RMT	0.00	505.94	NIL
3.8	new	E030H	For pipes of 450 mm dia.	RMT	0.00	577.96	NIL
3.9	new	E030I	For pipes of 500 mm dia.	RMT	0.00	620.51	NIL
3.10	new	E030J	For pipes of 600 mm dia.	RMT	0.00	794.72	NIL
3.11	new	E030K	For pipes of 700 mm dia.	RMT	0.00	1095.98	NIL
3.12	new	E030L	For pipes of 800 mm dia.	RMT	0.00	1374.39	NIL
3.13	new	E030M	For pipes of 900 mm dia.	RMT	0.00	1741.29	NIL
3.14	new	E030N	For pipes of 1000 mm dia.	RMT	0.00	1846.62	NIL
3.15	new	E030O	For pipes of 1100 mm dia.	RMT	0.00	1967.47	NIL
4.	new	E040	Providing Mechanical joints to cast iron pipes or Ductile iron pipes including cost of rubber gaskets and testing of joints. mechanical joints items will be supplied by the department. (contractor will make his own arrangements for procuring water for testing) for:				
4.1	new	E040A	100 mm dia pipes.	RMT	0.00	156.51	NIL
4.2	new	E040B	150 mm dia pipes.	RMT	0.00	203.76	NIL
4.3	new	E040C	200 mm dia pipes.	RMT	0.00	348.61	NIL
4.4	new	E040D	250 mm dia pipes.	RMT	0.00	400.96	NIL
4.5	new	E040E	300 mm dia pipes.	RMT	0.00	559.23	NIL
4.6	new	E040F	350 mm dia pipes.	RMT	0.00	668.17	NIL
4.7	new	E040G	400 mm dia pipes.	RMT	0.00	1313.81	NIL
4.8	new	E040H	450 mm dia pipes.	RMT	0.00	1464.87	NIL
4.9	new	E040I	500 mm dia pipes.	RMT	0.00	1575.61	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
4.10	new	E040K	700 mm dia pipes.	RMT	0.00	3207.29	NIL
4.11	new	E040L	800 mm dia pipes.	RMT	0.00	3718.15	NIL
4.12	new	E040M	900 mm dia pipes.	RMT	0.00	4966.80	NIL
4.13	new	E040N	1000 mm dia pipes.	RMT	0.00	5997.11	NIL
4.14	new	E040O	1100 mm dia pipes.	RMT	0.00	7042.84	NIL
5.	new	E050	DI pipes of all classes conveying to worksite, rolling and lowering into trenches, laying true to line, level and perfect linking at joints and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of DI pipes and specials (excluding cost of specials) with rubber gaskets including cleaning the sockets and spigot ends with soap solutions and applying soft soap to the spigot and socket end before insertion of rubber gaskets, jacking and fixing in perfect conditions including the cost of soap solution, soft soap, waste etc. and giving necessary hydraulic test to the required pressure as per ISS etc. with all leads and lifts including cost of all jointing materials (Earth work excavation in trenches to be measured and paid for separately) (Contractor will make his own arrangements for procuring water for testing) etc. for:				
5.1	new	E050A	100 mm dia pipe	RMT	0.00	41.95	NIL
5.2	new	E050B	150 mm dia pipe	RMT	0.00	51.99	NIL
5.3	new	E050C	200 mm dia pipe	RMT	0.00	70.16	NIL
5.4	new	E050D	250 mm dia pipe	RMT	0.00	82.60	NIL
5.5	new	E050E	300 mm dia pipe	RMT	0.00	103.00	NIL
5.6	new	E050F	350 mm dia pipe	RMT	0.00	118.42	NIL
5.7	new	E050G	400 mm dia pipe	RMT	0.00	157.74	NIL
5.8	new	E050H	450 mm dia pipe	RMT	0.00	183.97	NIL
5.9	new	E050I	500 mm dia pipe	RMT	0.00	204.31	NIL
5.10	new	E050J	600 mm dia pipe	RMT	0.00	250.68	NIL
5.11	new	E050K	700 mm dia pipe	RMT	0.00	386.51	NIL
5.12	new	E050L	800 mm dia pipe	RMT	0.00	530.45	NIL
5.13	new	E050M	900 mm dia pipe	RMT	0.00	624.60	NIL
5.14	new	E050N	1000 mm dia pipe	RMT	0.00	719.50	NIL
5.15	new	E050O	1100 mm dia pipe	RMT	0.00	771.95	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
6.	new	E060	Providing flanged joints to double flanged Cast Iron / Ductile Iron pipes and specials including testing of joints etc. for : (Contractor will make his own arrangements for procuring water for testing)				
6.1	new	E060A	Pipes and specials of dia 80 mm.	NOS	0.00	110.74	NIL
6.2	new	E060B	Pipes and specials of dia 100 mm.	NOS	0.00	177.61	NIL
6.3	new	E060C	Pipes and specials of dia 150 mm.	NOS	0.00	222.02	NIL
6.4	new	E060D	Pipes and specials of dia 200 mm.	NOS	0.00	246.95	NIL
6.5	new	E060E	Pipes and specials of dia 250 mm.	NOS	0.00	355.13	NIL
6.6	new	E060F	Pipes and specials of dia 300 mm.	NOS	0.00	361.98	NIL
6.7	new	E060G	Pipes and specials of dia 350 mm.	NOS	0.00	481.04	NIL
6.8	new	E060H	Pipes and specials of dia 400 mm.	NOS	0.00	690.05	NIL
6.9	new	E060I	Pipes and specials of dia 450 mm.	NOS	0.00	855.06	NIL
6.10	new	E060J	Pipes and specials of dia 500 mm.	NOS	0.00	956.57	NIL
6.11	new	E060K	Pipes and specials of dia 600 mm.	NOS	0.00	1370.12	NIL
6.12	new	E060L	Pipes and specials of dia700 mm.	NOS	0.00	1412.06	NIL
6.13	new	E060M	CI pipes and specials- pipe dia 800 mm.	NOS	0.00	1717.12	NIL
6.14	new	E060N	CI pipes and specials- pipe dia 900 mm.	NOS	0.00	2050.92	NIL
6.15	new	E060O	CI pipes and specials- pipe dia 1000 mm.	NOS	0.00	2375.74	NIL
6.16	new	E060P	CI pipes and specials- pipe dia 1100 mm.	NOS	0.00	2570.76	NIL
7.	new	E070	Providing RUBBER JOINTING for CI / DI / PSC pipes with rubber gaskets including cleaning the socket and spigot ends with soap solution and applying soft soap to the spigot and socket ends before insertion of rubber gaskets, jacking and fixing in perfect conditions including cost of soap solution, soft soap, waste etc with all lead and lift including cost of jointing materials etc. for:				
7.1	new	E070A	100 mm dia CI / DI PIPES	NOS	0.00	106.40	NIL
7.2	new	E070B	150 mm dia CI PIPES	NOS	0.00	127.86	NIL
7.3	new	E070C	200 mm dia CI PIPES	NOS	0.00	172.66	NIL
7.4	new	E070D	250 mm dia CI PIPES	NOS	0.00	204.72	NIL
7.5	new	E070E	300 mm dia CI PIPES	NOS	0.00	265.09	NIL
7.6	new	E070F	350 mm dia CI PIPES	NOS	0.00	300.03	NIL
7.7	new	E070G	400 mm dia CI PIPES	NOS	0.00	448.24	NIL
7.8	new	E070H	450 mm dia CI PIPES	NOS	0.00	510.17	NIL
7.9	new	E070I	500 mm dia CI PIPES	NOS	0.00	555.15	NIL
7.10	new	E070J	600 mm dia CI PIPES	NOS	0.00	664.44	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.11	new	E070K	700 mm dia CI PIPES	NOS	0.00	834.66	NIL
7.12	new	E070L	750 mm dia CI PIPES	NOS	0.00	1102.00	NIL
7.13	new	E070M	900 mm dia CI PIPES	NOS	0.00	1519.26	NIL
7.14	new	E070N	1000 mm dia CI PIPES	NOS	0.00	1793.59	NIL
7.15	new	E070O	1100 mm dia CI PIPES	NOS	0.00	2022.52	NIL

CHAPTER -7

M.S. PIPES & SPECIALS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	5.1	F010	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
1.1	5.1.1.1	F010A	Pipe of 219 mm dia -4.8 mm thick	RMT	2853.02	2692.74	-5.61
1.2	5.1.1.2	F010B	Pipe of 219 mm dia 5.4 mm thick	RMT	3043.26	2903.8	-4.58
1.3	5.1.1.3	F010C	Pipe of 219 mm dia 5.6 mm thick	RMT	3114.89	2975.84	-4.46
1.4	5.1.1.4	F010D	Pipe of 219 mm dia 6.0 mm thick	RMT	3235.74	3118.01	-3.63
1.5	5.1.1.5	F010E	Pipe of 219 mm dia 6.4 mm thick	RMT	3374.86	3259.43	-3.42
1.6	5.1.1.6	F010F	Pipe of 219 mm dia 7.0 mm thick	RMT	3564.32	3472.51	-2.57
1.7	5.1.1.7	F010G	Pipe of 219 mm dia 7.9 mm thick	RMT	3843.6	3790.99	-1.36
1.8	5.1.1.8	F010H	Pipe of 219 mm dia 8.2 mm thick	RMT	3944.28	3897.15	-1.19
1.9	5.1.1.9	F010I	Pipe of 219 mm dia 8.7 mm thick	RMT	4104.43	4074.08	-0.73
1.10	5.1.1.10	F010J	Pipe of 219 mm dia 9.5 mm thick	RMT	4350.27	4357.17	0.15
2.	5.1.2	F020	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
2.1	5.1.2.1	F020A	Pipe of 273.1 mm dia -4.8 mm thick	RMT	3395.22	3339.34	-1.64
2.2	5.1.2.2	F020B	Pipe of 273.1 mm dia -5.6 mm thick	RMT	3717	3701.42	-0.41
2.3	5.1.2.3	F020C	Pipe of 273.1 mm dia -6 mm thick	RMT	3879.65	3877.72	-0.04
2.4	5.1.2.4	F020D	Pipe of 273.1 mm dia -6.4 mm thick	RMT	4046.96	4042.64	-0.10
2.5	5.1.2.5	F020E	Pipe of 273.1 mm dia -7.2 mm thick	RMT	4366.23	4412.94	1.06
2.6	5.1.2.6	F020F	Pipe of 273.1 mm dia -7.8 mm thick	RMT	4615.69	4681.49	1.42
2.7	5.1.2.7	F020G	Pipe of 273.1 mm dia -8.7 mm thick	RMT	4967.29	5083.38	2.33
2.8	5.1.2.8	F020H	Pipe of 273.1 mm dia -9.3 mm thick	RMT	5212.95	5356.36	2.75
3.	5.1.3	F030	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.1	5.1.3.1	F030A	Pipe of 323.9 mm dia -5.6 mm thick	RMT	4310.99	4362.77	1.20
3.2	5.1.3.2	F030B	Pipe of 323.9 mm dia -6.0 mm thick	RMT	4505.88	4575.09	1.53
3.3	5.1.3.3	F030C	Pipe of 323.9 mm dia -6.4 mm thick	RMT	4691.82	4788.68	2.06
3.4	5.1.3.4	F030D	Pipe of 323.9 mm dia -7.1 mm thick	RMT	5026.26	5158.34	2.62
3.5	5.1.3.5	F030E	Pipe of 323.9 mm dia -7.9 mm thick	RMT	5419.58	5585.5	3.06
3.6	5.1.3.6	F030F	Pipe of 323.9 mm dia -8.4 mm thick	RMT	5650.68	5850.9	3.54
3.7	5.1.3.7	F030G	Pipe of 323.9 mm dia -8.7 mm thick	RMT	5796.95	6007.61	3.63
3.8	5.1.3.8	F030H	Pipe of 323.9 mm dia -9.5 mm thick	RMT	6176.57	6434.77	4.18
4.	5.1.4	F040	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
4.1	5.1.4.1	F040A	Pipe of 355.6 mm dia -5.6 mm thick	RMT	4697.62	4772.56	1.59
4.2	5.1.4.2	F040B	Pipe of 355.6 mm dia -6.0 mm thick	RMT	4906.48	4945	0.78
4.3	5.1.4.3	F040C	Pipe of 355.6 mm dia -6.4 mm thick	RMT	5120.94	5178.8	1.12
4.4	5.1.4.4	F040D	Pipe of 355.6 mm dia -7.1 mm thick	RMT	5499.08	5585.75	1.57
4.5	5.1.4.5	F040E	Pipe of 355.6 mm dia -7.9 mm thick	RMT	5921.97	6115.98	3.27
4.6	5.1.4.6	F040F	Pipe of 355.6 mm dia -8.7 mm thick	RMT	6342.01	6579.8	3.74
4.7	5.1.4.7	F040G	Pipe of 355.6 mm dia -9.5 mm thick	RMT	6752.31	7048.67	4.38

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.	5.1.5	F050	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
5.1	5.1.5.1	F050A	Pipe of 406 mm dia -5.6 mm thick	RMT	5276.62	5453.59	3.35
5.2	5.1.5.2	F050B	Pipe of 406 mm dia -6 mm thick	RMT	5517.55	5718.99	3.65
5.3	5.1.5.3	F050C	Pipe of 406 mm dia -6.4 mm thick	RMT	5757.69	5985.02	3.94
5.4	5.1.5.4	F050D	Pipe of 406 mm dia -7.1 mm thick	RMT	6192.39	6448.84	4.14
5.5	5.1.5.5	F050E	Pipe of 406 mm dia -7.9 mm thick	RMT	6675.09	6985.32	4.64
5.6	5.1.5.6	F050F	Pipe of 406 mm dia -8.7 mm thick	RMT	7168.23	7500.95	4.64
5.7	5.1.5.7	F050G	Pipe of 406 mm dia -9.5 mm thick	RMT	7647.48	8074.08	5.57
5.8	5.1.5.8	F050H	Pipe of 406 mm dia -10 mm thick	RMT	7939.53	8386.24	5.62
6.	5.1.6	F060	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
6.1	5.1.6.1	F060A	Pipe of 457 mm dia-5.6 mm thick	RMT	5987.1	6128.79	2.36
6.2	5.1.6.2	F060B	Pipe of 457 mm dia-6.4 mm thick	RMT	6551	6727.83	2.69
6.3	5.1.6.3	F060C	Pipe of 457 mm dia-7.1 mm thick	RMT	7042.41	7243.46	2.85
6.4	5.1.6.4	F060D	Pipe of 457 mm dia-7.9 mm thick	RMT	7607.16	7868.41	3.43
6.5	5.1.6.5	F060E	Pipe of 457 mm dia-8.7 mm thick	RMT	8157.71	8440.91	3.47
6.6	5.1.6.6	F060F	Pipe of 457 mm dia-9.5 mm thick	RMT	8719.79	9067.13	3.98
6.7	5.1.6.7	F060G	Pipe of 457 mm dia-10 mm thick	RMT	9064.75	9431.1	4.04
7.	5.1.7	F070	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
7.1	5.1.7.1	F070A	Pipe of 508 mm dia-5.6 mm thick	RMT	6594.36	6976.02	5.78
7.2	5.1.7.2	F070B	Pipe of 508 mm dia-6.4 mm thick	RMT	7216.97	7653.42	6.04
7.3	5.1.7.3	F070C	Pipe of 508 mm dia-7.1 mm thick	RMT	7767.16	8278.37	6.58
7.4	5.1.7.4	F070D	Pipe of 508 mm dia-7.9 mm thick	RMT	8388.98	8955.77	6.75
7.5	5.1.7.5	F070E	Pipe of 508 mm dia-8.7 mm thick	RMT	9011.5	9632.53	6.89
7.6	5.1.7.6	F070F	Pipe of 508 mm dia-9.5 mm thick	RMT	9633.06	10359.85	7.54
7.7	5.1.7.7	F070G	Pipe of 508 mm dia-10 mm thick	RMT	10021.03	10778.17	7.55

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
8	5.1.8	F080	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
8.1	5.1.8.1	F080A	Pipe of 559 mm dia-5.6 mm thick	RMT	7251.08	7649.95	5.50
8.2	5.1.8.2	F080B	Pipe of 559 mm dia-6.4 mm thick	RMT	7944.36	8379.17	5.47
8.3	5.1.8.3	F080C	Pipe of 559 mm dia-7.1 mm thick	RMT	8551.1	9055.93	5.90
8.4	5.1.8.4	F080D	Pipe of 559 mm dia-7.9 mm thick	RMT	9231.45	9837.59	6.56
8.5	5.1.8.5	F080E	Pipe of 559 mm dia-8.7 mm thick	RMT	9975.05	10566.8	5.93
8.6	5.1.8.6	F080F	Pipe of 559 mm dia-9.5 mm thick	RMT	10605.86	11347.83	6.99
8.7	5.1.8.7	F080G	Pipe of 559 mm dia-10 mm thick	RMT	11040.81	11809.75	6.96
9.	5.1.9.	F090	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
9.1	5.1.9.1	F090A	Pipe of 610 mm dia-5.6 mm thick	RMT	7888.59	8331.36	5.61
9.2	5.1.9.2	F090B	Pipe of 610 mm dia-6.4 mm thick	RMT	8647.89	9164.84	5.97
9.3	5.1.9.3	F090C	Pipe of 610 mm dia-7.1 mm thick	RMT	9311.35	9841.6	5.69
9.4	5.1.9.4	F090D	Pipe of 610 mm dia-7.9 mm thick	RMT	10063.67	10677.61	6.10
9.5	5.1.9.5	F090E	Pipe of 610 mm dia-8.7 mm thick	RMT	10815.4	11507.29	6.39
9.6	5.1.9.6	F090F	Pipe of 610 mm dia-9.5 mm thick	RMT	11664.95	12409.64	6.38
9.7	5.1.9.7	F090G	Pipe of 610 mm dia-10 mm thick	RMT	12037.4	12860.82	6.84
9.8	5.1.9.8	F090H	Pipe of 610 mm dia-12 mm thick	RMT	13901.32	14923.97	7.35
10.	5.1.10	F100	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
10.1	5.1.10.1	F100A	Pipe of 660 mm dia-6.4 mm thick	RMT	9407.59	10002.65	6.32
10.2	5.1.10.2	F100B	Pipe of 660 mm dia-7.1 mm thick	RMT	32820.08	10785.57	-67.13
10.3	5.1.10.3	F100C	Pipe of 660 mm dia-7.9 mm thick	RMT	10941.03	11671.5	6.67
10.4	5.1.10.4	F100D	Pipe of 660 mm dia-8.7 mm thick	RMT	11752.23	12557.42	6.85
10.5	5.1.10.5	F100E	Pipe of 660 mm dia-9.5 mm thick	RMT	12563	13439.55	6.97
10.6	5.1.10.6	F100F	Pipe of 660 mm dia-10 mm thick	RMT	13075	14008.26	7.13

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
11	5.1.11	F110	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
11.1	5.1.11.1	F110A	Pipe of 711 mm dia-6.4 mm thick	RMT	10098.03	10738.93	6.34
11.2	5.1.11.2	F110B	Pipe of 711 mm dia-7.1 mm thick	RMT	10876.98	11573.04	6.39
11.3	5.1.11.3	F110C	Pipe of 711 mm dia-7.9 mm thick	RMT	11759.81	12514.57	6.41
11.4	5.1.11.4	F110D	Pipe of 711 mm dia-8.7 mm thick	RMT	12640.91	13452.94	6.42
11.5	5.1.11.5	F110E	Pipe of 711 mm dia-9.5 mm thick	RMT	13511.16	14400.79	6.58
11.6	5.1.11.6	F110F	Pipe of 711 mm dia-10.0 mm thick	RMT	14057.99	15045.33	7.02
11.7	5.1.11.7	F110G	Pipe of 711 mm dia-12 mm thick	RMT	16239.2	17462.35	7.53
12.	5.1.12	F120	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
12.1	5.1.12.1	F120A	Pipe of 762 mm dia-7.1 mm thick	RMT	11675.48	12367.05	5.92
12.2	5.1.12.2	F120B	Pipe of 762 mm dia-7.9 mm thick	RMT	12614.6	13403.99	6.25
12.3	5.1.12.3	F120C	Pipe of 762 mm dia-8.7 mm thick	RMT	13569.74	14446	6.45
12.4	5.1.12.4	F120D	Pipe of 762 mm dia-9.5 mm thick	RMT	14508.6	15493.69	6.78
12.5	5.1.12.5	F120E	Pipe of 762 mm dia-10 mm thick	RMT	15100.51	16117.37	6.73
13.	5.1.13	F130	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
13.1	5.1.13.1	F130A	Pipe of 813 mm dia-7.1 mm thick	RMT	12385.51	13226.39	6.78
13.2	5.1.13.2	F130B	Pipe of 813 mm dia-7.9 mm thick	RMT	13397.54	14287.98	6.64
13.3	5.1.13.3	F130C	Pipe of 813 mm dia-8.7 mm thick	RMT	14410.09	15415.92	6.98
13.4	5.1.13.4	F130D	Pipe of 813 mm dia-9.5 mm thick	RMT	15408.6	16477.51	6.93
13.5	5.1.13.5	F130E	Pipe of 813 mm dia-10 mm thick	RMT	16045.42	17166.28	6.98
13.6	5.1.13.6	F130F	Pipe of 813 mm dia-12 mm thick	RMT	18549.17	19858.18	7.05

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
14.	5.1.14	F140	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
14.1	5.1.14.1	F140A	Pipe of 864 mm dia-7.9 mm thick	RMT	14389.12	15166.63	5.40
14.2	5.1.14.2	F140B	Pipe of 864 mm dia-8.7 mm thick	RMT	15368.04	16161.87	5.16
14.3	5.1.14.3	F140C	Pipe of 864 mm dia-9.5 mm thick	RMT	16443.77	17488.86	6.35
14.4	5.1.14.4	F140D	Pipe of 864 mm dia-10 mm thick	RMT	17112.57	18215.55	6.44
15.	5.1.15	F150	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
15.1	5.1.15.1	F150A	Pipe of 914 mm dia-7.9 mm thick	RMT	15204.56	16062.13	5.64
15.2	5.1.15.2	F150B	Pipe of 914 mm dia-8.7 mm thick	RMT	16334.17	17253.26	5.62
15.3	5.1.15.3	F150C	Pipe of 914 mm dia-9.5 mm thick	RMT	17473.26	18517.06	5.97
15.4	5.1.15.4	F150D	Pipe of 914 mm dia-10 mm thick	RMT	18176.88	19313.26	6.25
16.	5.1.16	F160	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
16.1	5.1.16.1	F160A	Pipe of 965 mm dia-8.7 mm thick	RMT	17307.8	18201.42	5.16
16.2	5.1.16.2	F160B	Pipe of 965 mm dia-9.5 mm thick	RMT	18508.6	19458.9	5.13
16.3	5.1.16.3	F160C	Pipe of 965 mm dia-10 mm thick	RMT	19257.48	20261.42	5.21
17.	5.1.17	F170	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
17.1	5.1.17.1	F170A	Pipe of 1016 mm dia-8.7 mm thick	RMT	18260.15	19160.12	4.92
17.2	5.1.17.2	F170B	Pipe of 1016 mm dia-9.5 mm thick	RMT	19531.63	20556.61	5.24
17.3	5.1.17.3	F170C	Pipe of 1016 mm dia-10 mm thick	RMT	20325.59	21416	5.36
17.4	5.1.17.4	F170D	Pipe of 1016 mm dia-12 mm thick	RMT	23464.71	24802.98	5.70
18.	5.1.18	F180	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
18.1	5.1.18.1	F180A	Pipe of 1067 mm dia-8.7 mm thick	RMT	19125.14	20143.65	5.32
18.2	5.1.18.2	F180B	Pipe of 1067 mm dia-9.5 mm thick	RMT	201456.27	21540.15	-89.30
18.3	5.1.18.3	F180C	Pipe of 1067 mm dia-10 mm thick	RMT	21282.81	22399.53	5.24
19.	5.1.18.	F190	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
19.1	5.1.18.1	F190A	Pipe of 1118 mm dia-8.7 mm thick	RMT	20003.57	21108.8	5.52
19.2	5.1.18.2	F190B	Pipe of 1118 mm dia-9.5 mm thick	RMT	21392.11	22638	5.82
19.3	5.1.18.3	F190C	Pipe of 1118 mm dia-10 mm thick	RMT	22265.97	23566.89	5.84
20.	5.1.19	F200	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
20.1	5.1.19.1	F200A	Pipe of 1168 mm dia-9.5 mm thick	RMT	22472.77	23625.7	5.13
20.2	5.1.19.2	F200B	Pipe of 1168 mm dia-10 mm thick	RMT	23377.32	24624.1	5.33
21.	5.1.20	F210	Manufacturing, providing, transporting, rolling, lowering, laying, jointing and commissioning of ERW (Electric Resistance Welded) SAW (Submerged Arc Welded) MS pipes (Fe-410 grade) conforming to IS 3589-2001 with latest amendments, including perfect linking and welding of joints to correct position, cost of the pipes, conveyance, lead, lift charges, cost of all labour and giving satisfactory hydraulic test as				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			per IS 3589-2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside with CM 1:1.5 lining of minimum 10 mm thick for pipes upto 610 mm OD and with minimum 12 mm thick beyond 610 mm OD and out side with minimum 25 mm thick coating in CM 1:3 over 50 x 50 mm weld mesh of 13 gauge, including loading and unloading of pipes for the following diameters and specified thickness of plate as noted below, including bailing out of water wherever necessary. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing)				
21.1	5.1.20.1	F210A	Pipe of 1219 mm dia-10 mm thick	RMT	24344.8	24225.01	-0.49
22.	5.2	F220	Manufacturing, providing, transporting, rolling, lowering, laying, jointing & testing and commissioning of MS specials of minimum 8 mm thick such as bends, tail pieces, reducers etc. conforming to IS-7322:1985 with latest amendments and including perfect linking and welding of joints to correct position including cost and conveyance of materials with all lead and lifts, cost all labour and giving satisfactory hydraulic test as per IS:3589:2001 with latest amendments for test pressure and working pressure both at factory and site etc. complete as per detailed specifications with inside lining two coat of food grade epoxy painting of approved make with each coat of 250 micron thick (after dry) over one coat of food grade epoxy primer of approved make with minimum of 50 micron thick (after dry) and outside 25 mm thick coating in CM 1:3 by providing 50x50 mm weld mesh including loading and unloading of the pipes for the following category to suit PSC / MS / CI / AC / DI / PVC pipes. The rates are inclusive of all taxes and duties. The weight of MS shell only by considered before lining and coating for arriving at the rate. The thickness of plate will be specified by the engineer. (Contractor will make hiw own arrangements for procuring water for testing) for:				
22.1	5.2.1	F220A	MS / PSC / CI / DI / PVC / AC pipe bends, tail pieces, reducers etc. for upto 500 mm dia pipes	KGS	111.47	130.24	16.83
22.2	5.2.2	F220B	MS / PSC / CI / DI / PVC / AC pipe bends, tail pieces, reducers etc. for above 500 mm dia pipes	KGS	102.96	119.02	15.59

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
23.	5.b.1	F230	Providing, fabricating, supplying and fixing at site various diameter MS SPECIALS of mechanised ends as per sketch to suite PSC pipe sockets and spigots joints. The cost is inclusive of all materials including rubber 'O' rings, labour, consumables, hire charges for tools, tackles, welding equipments, lead and lifts, etc. complete as per the instructions of Engineer in charge.				
23.1	5.b.1.1	F230A	For CI / DI pipes of 450 mm dia.	NOS	18302.28	11202.84	-38.78
23.2	5.b.1.2	F230B	For CI / DI pipes of 600 mm dia.	NOS	21446.63	17342.19	-19.13
23.3	5.b.1.3	F230C	For CI / DI pipes of 700 mm dia.	NOS	25049.2	20486.95	-18.21
24.	5.b.2	F240	Providing, fabricating, supplying and fixing at site various diameter MS MJ ends to suit CI / DI pipe as per the sketch. The cost is inclusive of all materials, i.e, rubber 'O' rings, flanges, bolts and nuts, consumables, hire charges, tools and tackles, welding equipments, lead and lifts, etc. complete as per the instructions of Engineer in charge.				
24.1	5.b.2.1	F240A	For CI / DI pipes of 100 mm dia.	NOS	1989.43	2786.37	40.05
24.2	5.b.2.2	F240B	For CI / DI pipes of 150 mm dia.	NOS	3133.66	3244.99	3.55
24.3	5.b.2.3	F240C	For CI / DI pipes of 200 mm dia.	NOS	4118.56	4799.6	16.53
24.4	5.b.2.4	F240D	For CI / DI pipes of 250 mm dia.	NOS	5379.08	6317.7	17.44
24.5	5.b.2.5	F240E	For CI / DI pipes of 300 mm dia.	NOS	6907.1	6739.95	-2.41
24.6	5.b.2.6	F240F	For CI / DI pipes of 400 mm dia.	NOS	9476.5	9273.57	-2.14
24.7	5.b.2.7	F240G	For CI / DI pipes of 450 mm dia.	NOS	11072.72	10242.79	-7.49
24.8	5.b.2.8	F240H	For CI / DI pipes of 600 mm dia.	NOS	16420.09	13342.36	-18.74
24.10	5.b.2.10	F240I	For CI / DI pipes of 700 mm dia.	NOS	20050.46	16026.31	-20.07
25.	5.b.3.1	F250	Providing, fabricating, supplying and fixing at site various diameters of MS Flanges as per IS standards to fix sluice valves as per sketch. The rate to include cost of all materials, labour, consumables, hire charges for tools and tackles, welding equipments etc. complete as per instructions of the Engineer in charge for:				
25.1	5.b.3.1.1.a	F250A	Flanges of 100 mm dia and 10 mm thick.	NOS	587.46	667.62	13.64
25.2	5.b.3.1.1.b	F250B	Flanges of 100 mm dia and 8 mm thick.	NOS	475.12	549.12	15.57
25.3	5.b.3.1.2.a	F250C	Flanges of 150 mm dia and 16 mm thick.	NOS	1378.29	1562.17	13.34
25.4	5.b.3.1.2.b	F250D	Flanges of 150 mm dia and 12 mm thick.	NOS	1043.32	1181.99	13.29
25.5	5.b.3.1.3.a	F250E	Flanges of 200 mm dia and 20 mm thick.	NOS	2296.28	2614.8	13.87
25.6	5.b.3.1.3.b	F250F	Flanges of 200 mm dia and 16 mm thick.	NOS	1849.59	2145.44	15.99
25.7	5.b.3.1.4.a	F250G	Flanges of 250 mm dia and 20 mm thick.	NOS	3030.66	3476.66	14.71

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
25.8	5.b.3.1.4.b	F250H	Flanges of 250 mm dia and 16 mm thick.	NOS	2441.32	2837.67	16.23
25.9	5.b.3.1.5.a	F250I	Flanges of 300 mm dia and 20 mm thick.	NOS	3540.03	4054.88	14.54
25.10	5.b.3.1.5.b	F250J	Flanges of 300 mm dia and 16 mm thick.	NOS	2852.53	3307.71	15.95
25.11	5.b.3.1.6.a	F250K	Flanges of 400 mm dia and 25 mm thick.	NOS	5584.36	6404.28	14.68
25.12	5.b.3.1.6.b	F250L	Flanges of 400 mm dia and 20 mm thick.	NOS	4494.07	5196.81	15.63
25.13	5.b.3.1.7.a	F250M	Flanges of 450 mm dia and 25 mm thick.	NOS	6473.66	7419.54	14.61
25.14	5.b.3.1.7.b	F250N	Flanges of 450 mm dia and 20 mm thick.	NOS	5209.59	6094.13	16.97
25.15	5.b.3.1.8.a	F250O	Flanges of 600 mm dia and 25 mm thick.	NOS	7974.77	9160.53	14.86
25.16	5.b.3.1.8.b	F250P	Flanges of 600 mm dia and 20 mm thick.	NOS	6417.19	7437.87	15.90
25.17	5.b.3.1.9.a	F250Q	Flanges of 700 mm dia and 30 mm thick.	NOS	11111	12789.77	15.10
25.18	5.b.3.1.9.b	F250R	Flanges of 700 mm dia and 25 mm thick.	NOS	9298.75	10723.14	15.31
25.19	5.b.3.1.10.a	F250S	Flanges of 900 mm dia and 32 mm thick.	NOS	15142.3	16651.13	9.96
25.20	5.b.3.1.10.b	F250T	Flanges of 900 mm dia and 28 mm thick.	NOS	13283.29	14897.44	12.15
26.	new	F300	Providing Inner lining by spinning to M.S pipes including cleaning the inside surface, removing rust, millscalls etc., with CM 1:2 lining of minimum 8 mm thick upto 610 mm outer dia and minimum 10 mm thick beyond 610 mm OD and conforming to IS-11906 / 1986 etc. for:				
26.1	new	F300A	Inside of 219 mm dia pipes for 8 mm thick	RMT	0	195.48	NIL
26.2	new	F300B	Inside of 273.1 mm dia pipes for 8 mm thick	RMT	0	212.16	NIL
26.3	new	F300C	Inside of 323.9 mm dia pipes for 8 mm thick	RMT	0	252.81	NIL
26.4	new	F300D	Inside of 355.6 mm dia pipes for 8 mm thick	RMT	0	278.36	NIL
26.5	new	F300E	Inside of 406 mm dia pipes for 8 mm thick	RMT	0	319.28	NIL
26.6	new	F300F	Inside of 457 mm dia pipes for 8 mm thick	RMT	0	360.98	NIL
26.7	new	F300G	Inside of 508 mm dia pipes for 8 mm thick	RMT	0	402.68	NIL
26.8	new	F300H	Inside of 559 mm dia pipes for 8 mm thick	RMT	0	444.38	NIL
26.9	new	F300I	Inside of 610 mm dia pipes for 8 mm thick	RMT	0	485.56	NIL
26.10	new	F300J	Inside of 660 mm dia pipes for 10 mm thick	RMT	0	580.14	NIL
26.11	new	F300K	Inside of 711 mm dia pipes for 10 mm thick	RMT	0	625.23	NIL
26.12	new	F300L	Inside of 762 mm dia pipes for 10 mm thick	RMT	0	671.18	NIL
26.13	new	F300M	Inside of 813 mm dia pipes for 10 mm thick	RMT	0	716.27	NIL
26.14	new	F300N	Inside of 864 mm dia pipes for 10 mm thick	RMT	0	761.65	NIL
26.15	new	F300O	Inside of 914 mm dia pipes for 10 mm thick	RMT	0	807.31	NIL
26.16	new	F300P	Inside of 965 mm dia pipes for 10 mm thick	RMT	0	853.55	NIL
26.17	new	F300Q	Inside of 1016 mm dia pipes for 10 mm thick	RMT	0	897.78	RMT
26.18	new	F300R	Inside of 1067 mm dia pipes for 10 mm thick	RMT	0	945.46	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
26.19	new	F300S	Inside of 1118 mm dia pipes for 10 mm thick	RMT	0	991.7	NIL
26.20	new	F300T	Inside of 1168 mm dia pipes for 10 mm thick	RMT	0	1036.21	NIL
26.21	new	F300U	Inside of 1219 mm dia pipes for 10 mm thick	RMT	0	1081.88	NIL
27.	new	F310	Providing Outer lining to M.S pipes by spinning including cleaning the outer surface, removing rust, millscals etc., with CM 1:3 for minimum 25 mm thick over 50x50 weldmesh of 13 gauge lining and conforming to IS-11906/1986 etc. for:				
27.1	new	F310A	Outside of 219 mm dia pipes for 25 mm thick over welmesh	RMT	0	483.13	NIL
27.2	new	F310B	Outside of 273.1 mm dia pipes for 25 mm thick over welmesh	RMT	0	593.56	NIL
27.3	new	F310C	Outside of 323.9 mm dia pipes for 25 mm thick over welmesh	RMT	0	697.09	NIL
27.4	new	F310D	Outside of 355.6 mm dia pipes for 25 mm thick over welmesh.	RMT	0	773.01	NIL
27.5	new	F310E	Outside of 406 mm dia pipes for 25 mm thick over welmesh	RMT	0	883.44	NIL
27.6	new	F310F	Outside of 457 mm dia pipes for 25 mm thick over welmesh	RMT	0	990.41	NIL
27.7	new	F310G	Outside of 508 mm dia pipes for 25 mm thick over welmesh	RMT	0	1101.53	NIL
27.8	new	F310H	Outside of 559 mm dia pipes for 25 mm thick over welmesh	RMT	0	1211.96	NIL
27.9	new	F310I	Outside of 610 mm dia pipes for 25 mm thick over welmesh	RMT	0	1322.39	NIL
27.10	new	F310J	Outside of 660 mm dia pipes for 25 mm thick over welmesh	RMT	0	1428.68	NIL
27.11	new	F310K	Outside of 711 mm dia pipes for 25 mm thick over welmesh	RMT	0	1539.11	NIL
27.12	new	F310L	Outside of 762 mm dia pipes for 25 mm thick over welmesh	RMT	0	1649.54	NIL
27.13	new	F310M	Outside of 813 mm dia pipes for 25 mm thick over welmesh	RMT	0	1759.97	NIL
27.14	new	F310N	Outside of 864 mm dia pipes for 25 mm thick over welmesh.	RMT	0	1870.4	NIL
27.15	new	F310O	Outside of 914 mm dia pipes for 25 mm thick over welmesh	RMT	0	1980.83	NIL
27.16	new	F310P	Outside of 965 mm dia pipes for 25 mm thick over welmesh	RMT	0	2091.26	NIL
27.17	new	F310Q	Outside of 1016 mm dia pipes for 25 mm thick over welmesh	RMT	0	2201.69	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
27.18	new	F310R	Outside of 1067 mm dia pipes for 25 mm thick over welmesh	RMT	0	2312.12	NIL
27.19	new	F310S	Outside of 1118 mm dia pipes for 25 mm thick over welmesh	RMT	0	2422.55	NIL
27.20	new	F310T	Outside of 1168 mm dia pipes for 25 mm thick over welmesh	RMT	0	2526.07	NIL
27.21	new	F310U	Outside of 1219 mm dia pipes for 25 mm thick over welmesh	RMT	0	2642.71	NIL
28.	new	F320	Providing Gas Welding to M.S pipes and specials after cleaning the surface including removing rust, millscals etc., by using standard welding rod conforming to IS 6419 etc. complete for:				
28.1	new	F320A	M.S pipe 219 mm dia	RMT	0	193.82	NIL
28.2	new	F320B	M.S pipe 273.1 mm dia	RMT	0	242.7	NIL
28.3	new	F320C	M.S pipe 323.9 mm dia welding.	RMT	0	286.52	NIL
28.4	new	F320D	M.S pipe 355.6 mm dia welding.	RMT	0	313.49	NIL
28.5	new	F320E	M.S pipe 406 mm dia welding.	RMT	0	362.36	NIL
28.6	new	F320F	M.S pipe 457 mm dia welding.	RMT	0	401.13	NIL
28.7	new	F320G	M.S pipe 508 mm dia welding.	RMT	0	444.95	NIL
28.8	new	F320H	M.S pipe 559 mm dia welding.	RMT	0	490.45	NIL
28.9	new	F320I	M.S pipe 610 mm dia welding.	RMT	0	535.96	NIL
28.10	new	F320J	M.S pipe 660 mm dia welding.	RMT	0	579.78	NIL
28.11	new	F320K	M.S pipe 711 mm dia welding.	RMT	0	625.29	NIL
28.12	new	F320L	M.S pipe 762 mm dia welding.	RMT	0	669.11	NIL
28.13	new	F320M	M.S pipe 813 mm dia welding.	RMT	0	712.93	NIL
28.14	new	F320N	M.S pipe 864 mm dia welding.	RMT	0	760.12	NIL
28.15	new	F320O	M.S pipe 914 mm dia welding.	RMT	0	802.25	NIL
28.16	new	F320P	M.S pipe 965 mm dia welding.	RMT	0	847.76	NIL
28.17	new	F320Q	M.S pipe 1016 mm dia welding.	RMT	0	891.58	NIL
28.18	new	F320R	M.S pipe 1067 mm dia welding.	RMT	0	937.09	NIL
28.19	new	F320S	M.S pipe 1118 mm dia welding.	RMT	0	982.59	NIL
28.20	new	F320T	M.S pipe 1168 mm dia welding.	RMT	0	1026.41	NIL
28.21	new	F320U	M.S pipe 1219 mm dia welding.	RMT	0	1071.92	NIL
29.	new	F330	Providing coal taring two coats to the outer surface of M.S pipes as per AWWA specifications including the cost of coal tar etc. complete for:				
29.1	new	F330A	M.S pipes of 219 mm dia..	RMT	0	38.07	NIL
29.2	new	F330B	M.S pipes of 273 mm dia..	RMT	0	47.35	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
29.3	new	F330C	M.S pipes of 324 mm dia..	RMT	0	56.09	NIL
29.4	new	F330D	M.S pipes of 355 mm dia..	RMT	0	61.44	NIL
29.5	new	F330G	M.S pipes of 406 mm dia.	RMT	0	70.29	NIL
29.6	new	F330H	M.S pipes of 457 mm dia.	RMT	0	79.14	NIL
29.7	new	F330I	M.S pipes of 508 mm dia.	RMT	0	87.93	NIL
29.8	new	F330J	M.S pipes of 559 mm dia.	RMT	0	96.78	NIL
29.9	new	F330K	M.S pipes of 610 mm dia.	RMT	0	105.57	NIL
29.10	new	F330L	M.S pipes of 660 mm dia.	RMT	0	114.25	NIL
29.11	new	F330M	M.S pipes of 711 mm dia.	RMT	0	123.1	NIL
29.12	new	F330N	M.S pipes of 762 mm dia.	RMT	0	131.89	NIL
29.13	new	F330O	M.S pipes of 813 mm dia.	RMT	0	139.65	NIL
29.14	new	F330P	M.S pipes of 864 mm dia.	RMT	0	149.59	NIL
29.15	new	F330Q	M.S pipes of 914 mm dia.	RMT	0	158.22	NIL
29.16	new	F330R	M.S pipes of 965 mm dia.	RMT	0	167.07	NIL
29.17	new	F330S	COAL TAR Lining to M.S pipes 1016 mm dia.	RMT	0	175.86	NIL
29.18	new	F330T	COAL TAR Lining to M.S pipes 1067 mm dia.	RMT	0	184.76	NIL
29.19	new	F330U	COAL TAR Lining to M.S pipes 1118 mm dia.	RMT	0	194.1	NIL
29.20	new	F330V	COAL TAR Lining to M.S pipes 1168 mm dia.	RMT	0	202.18	NIL
29.21	new	F330W	COAL TAR Lining to M.S pipes 1219 mm dia.	RMT	0	211.03	NIL

CHAPTER - 8

PROVIDING & PREPARING SODIUM HYPOCHLORIDE SOLUTION FOR 500 LTS. CAPACITY TANK

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	6.1.a	G010A	Providing & preparing sodium hypochlorite solution for 500 ltrs capacity tank. The hypochlorite generator tank should consist of non-metallic tank of 500 lts capacity. Preferably sintex / supreme / voltas or equivalent fitted with a drain cock at the bottom for cleaning and periodic maintenance and outlet valve to let out the prepared sodium hypochlorite at bottom an orifice to fill the water at the top edge with lid and funnel. (water will be supplied by BWSSB). Iodized salt should be provided by the firm for one year for the preparation of hypochlorite. The elements to generate hypochlorite are to be made of imported electrode material "intri" mounted in PVC housing with wire leads for energizing in a water proof sealing. The electrode assembly should be mounted inside the hypochlorite generator tank. The hypochlorite generation tank should be mounted on a MS fabricated stand. The power panel should consist of on-off button, fuse, MCB, line charger indicator, process complete indicator, and timer unit housed in a cabinet with panel lock facility. The firm should provide dosing pump for suitable dosage operated by 230V 50 Hz AC mains provided by BWSSB. The residual chlorine at a radius of 2 Km should be maintained at 0.02 ppm at end.	NOS	98800	98848.2	0.04
1.1	6.1.b	G020A	Supply & preparing of Iodized salt for one 500 ml tank along with operation of plant with operator, consumables, maintenance and supply of spares for effective and successful operation of the plants for second year ie., after one year of commissioning	L.S	74880	74669.1	-0.28

CHAPTER - 9

RCC OVERHEAD RESERVOIRS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	7.1	H010	Providing and laying Plain Cement Concrete of specified grade for foundations (screed layer) with 40 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate including cost and conveyance of all materials, lead and lifts, plywood / steel form works, machine mixing, laying, tamping curing etc. complete:				
1.1	new	H010A	PCC 1:2:4 using 40 mm aggregate	CUM	0.00	4710.65	NIL
1.2	new	H010B	PCC 1:4:8 using 40 mm aggregate	CUM	0.00	3468.70	NIL
1.3	7.1	H010C	PCC 1:3:6 using 40 mm aggregate	CUM	2738.45	3870.08	41.32
2.	7.2	H020	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for independent footings, rafts, combined footings etc. below ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed and laid in 15 cms thick layers, including machine mixing, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, smooth finishing the exposed faces wherever necessary, plywood / steel form works, centering, etc. with:				
2.1	7.2.1	H020A	RCC 1:1.5:3 with 20 mm aggregate for footings, rafts and combined footing etc.	CUM	3787.45	5962.15	57.42
2.2	7.2.2	H020B	RCC 1:1.5:3 with 20 mm aggregate for footings, rafts and combined footing etc. with smooth finishing the exposed faces in CM 1:4, 12 mm thick etc. complete	CUM	4212.44	6878.60	63.29
3.	7.3	H030	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for COLUMNS, BRACES, RING BEAMS etc. above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick etc. for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.1	7.3.1	H030A	RCC 1:1.5:3 with 20 mm aggregate for level upto 6 M height.	CUM	6675.46	9321.70	39.64
3.2	7.3.2	H030B	RCC 1:1.5:3 with 20 mm aggregate for level 6M to 9M height.	CUM	9080.72	10351.96	14.00
3.3	7.3.3	H030C	RCC 1:1.5:3 with 20 mm aggregate for level 9M to 12M height.	CUM	10080.01	11208.07	11.19
3.4	7.3.4	H030D	RCC 1:1.5:3 with 20 mm aggregate for level 12M to 15M height.	CUM	11377.25	11890.02	4.51
4.	7.4	H040	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for SHAFTS above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick etc. for:				
4.1	7.4.1	H040A	RCC 1:1.5:3 with 20 mm aggregate for below ground level.	CUM	6956.93	9091.57	30.68
4.2	7.4.2	H040B	RCC 1:1.5:3 with 20 mm aggregate for level upto 6 M height.	CUM	7500.91	9783.29	30.43
4.3	7.4.3	H040C	RCC 1:1.5:3 with 20 mm aggregate for level upto 6 to 9M height.	CUM	7793.99	10475.01	34.40
4.4	7.4.4	H040D	RCC 1:1.5:3 with 20 mm aggregate for level upto 9 to 12M height.	CUM	8086.77	11166.73	38.09
4.5	7.4.5	H040E	RCC 1:1.5:3 with 20 mm aggregate for level upto 12 to 15M height.	CUM	8391.27	12128.86	44.54
5.	7.5.1	H050	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for SHELL PORTION, BOTTOM DOOM, BOTTOM SLAB AND RIBS over the staging above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick and CM 1:3, 20 mm thick for inside with an admixture of water proofing compound of approved quality for requisite proportion etc. testing as per directions, (Contractor will make his own arrangements for procuring water for testing) etc. for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
4.1	7.5.1.1	H050A	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 M height.	CUM	9066.35	18425.89	103.23
4.2	7.5.1.2	H050B	RCC 1:1.5:3 with 20 mm aggregate for level and 6 to 9 M height.	CUM	9870.84	18933.69	91.81
4.3	7.5.1.3	H050C	RCC 1:1.5:3 with 20 mm aggregate for level and 9 to 12 M height.	CUM	10936.29	19963.95	82.55
4.4	7.5.1.4	H050D	RCC 1:1.5:3 with 20 mm aggregate for level and 12 to 15 M height.	CUM	12611.73	20994.21	66.47
6.	7.5.2	H060	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for SIDE WALLS OF WATER TANK over the staging above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick and CM 1:3, 20 mm thick for inside with an admixture of water proofing compound of approved quality for requisite proportion etc. testing as per directions, (Contractor will make his own arrangements for procuring water for testing) etc. for:				
6.1	7.5.2.1	H060A	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 M height.	CUM	9258.96	11483.22	24.02
6.2	7.5.2.2	H060B	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 - 9 M height.	CUM	10106.76	12259.58	21.30
6.3	7.5.2.3	H060C	RCC 1:1.5:3 with 20 mm aggregate for level and upto 9-12 M height.	CUM	11191.09	13035.93	16.48
6.4	7.5.2.4	H060D	RCC 1:1.5:3 with 20 mm aggregate for level and upto 12-15 M height.	CUM	12889.62	13812.29	7.16
7.	7.6.1	H070	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for TOP OF DOOM over the staging above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick for both sides etc. for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.1	7.6.1.1	H070A	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 M height.	CUM	10344.52	17740.62	71.50
7.2	7.6.1.2	H070B	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6-9 M height.	CUM	11584.44	18770.88	62.04
7.3	7.6.1.3	H070C	RCC 1:1.5:3 with 20 mm aggregate for level and 9 - 12 M height.	CUM	12552.77	19801.14	57.74
7.4	7.6.1.4	H070D	RCC 1:1.5:3 with 20 mm aggregate for level and 12 -15 M height.	CUM	14106.20	20831.40	47.68
8.	7.6.2	H080	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for TOP SLAB FOR OHT over the staging above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick for both sides etc. for:				
8.1	7.6.2.1	H080A	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 M height.	CUM	9893.01	11405.82	15.29
8.2	7.6.2.2	H080B	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6-9 M height.	CUM	11153.21	12436.08	11.50
8.3	7.6.2.3	H080C	RCC 1:1.5:3 with 20 mm aggregate for level and 9 - 12 M height.	CUM	12137.26	13466.34	10.95
8.4	7.6.2.4	H080D	RCC 1:1.5:3 with 20 mm aggregate for level and 12 -15 M height.	CUM	13711.58	14496.60	5.73
9.	7.7	H090	Providing and laying vibrated CC of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA for RCC works (excluding the cost of reinforcement) for SPIRAL STAIRCASE OF OHT over the staging above ground level, with 20 mm and down size of approved gradation hard broken granite, trap basalt or with any other approved hard aggregate, machine mixed, cost and conveyance of all materials, lead and lifts, consolidation, vibration, curing, plywood / steel form works, centering, scaffolding etc, finishing exposed faces in CM 1:3, 12 mm thick for both sides etc. for:				
9.1	7.7.1	H090A	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6 M height.	CUM	13647.64	17208.84	26.09
9.2	7.7.2	H090B	RCC 1:1.5:3 with 20 mm aggregate for level and upto 6-9 M height.	CUM	15271.32	18239.10	19.43

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
9.3	7.7.3	H090C	RCC 1:1.5:3 with 20 mm aggregate for level and upto 9-12 M height.	CUM	17233.56	19269.36	11.81
9.4	7.7.4	H090D	RCC 1:1.5:3 with 20 mm aggregate for level and upto 12-15 M height.	CUM	19535.76	20299.62	3.91
10.	new	H095	<p>All works Upto Plinth - Providing and laying in position Ready mixed M5 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, excluding the cost of centering, shuttering finishing and reinforcement, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - In - Charge.</p> <p>Note 1(a) : Part of OPC 43 GRADE, OPC 53 GRADE AND BLENDED PORTLAND POZZOLONA conforming to IS8112) can be substituted with Ground Granulated Blast furnace slag (GGBS) to a minimum of 30%. The physical and chemical properties of GGBS shall conform to IS: 12089-1987 (Reaffirmed 2008). Uniform blending with OPC 43 grade cement to be ensured in accordance with clauses 5.2 and 5.2.1 of IS:456-2000.</p> <p>Note 1(b) : Quantity of cementitious material considered in this item is @ 330 kg/cum (230 kg OPC 43 GRADE CEMENT + 100 kg GGBS. Excess / less OPC 43 grade cement used beyond 230 KG as per design mix is payable / recoverable separately @ rate of Rs7.154 / Kg of Ordinary Portland Cement, Excess / less GGBS used beyond 100 KG as per design mix is payable / recoverable separately @ rate of Rs 3.1 / Kg of GGBS.</p>				
10.1	new	H095A	P & Laying GGBS Ready mixed M5 grade concrete - All works Upto Plinth Level	CUM	0.00	4966.82	NIL
10.2	new	H095B	P & Laying GGBS Ready mixed M7.5 grade concrete - All works Upto Plinth Level	CUM	0.00	4874.92	NIL
10.3	new	H095C	P & Laying GGBS Ready mixed M10 grade concrete - All works Upto Plinth Level	CUM	0.00	5705.99	NIL
10.4	new	H095D	P & Laying GGBS Ready mixed M15 grade concrete - All works Upto Plinth Level	CUM	0.00	6281.27	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
10.5	new	H095F	P & Laying GGBS Ready mixed M20 grade concrete - All works Upto Plinth Level	CUM	0.00	6577.04	NIL
10.6	new	H095G	P & Laying GGBS Ready mixed M25 grade concrete - All works Upto Plinth Level	CUM	0.00	6741.60	NIL
10.7	new	H095H	P & Laying GGBS Ready mixed M30 grade concrete - All works Upto Plinth Level	CUM	0.00	6850.51	NIL
10.8	new	H095I	P & Laying GGBS Ready mixed M15 grade concrete - for 6 meter height	CUM	0.00	6718.15	NIL
10.9	new	H095J	P & Laying GGBS Ready mixed M20 grade concrete - for 6 meter height	CUM	0.00	7013.93	NIL
10.10	new	H095K	P & Laying GGBS Ready mixed M25 grade concrete - for 6 meter height	CUM	0.00	7178.49	NIL
10.11	new	H095L	P & Laying GGBS Ready mixed M30 grade concrete - for 6 meter height	CUM	0.00	7287.39	NIL
10.12	new	H095M	P & Laying GGBS Ready mixed M20 grade concrete - for 6-9 meter height	CUM	0.00	7362.23	NIL
10.13	new	H095N	P & Laying GGBS Ready mixed M25 grade concrete - for 6-9 meter height	CUM	0.00	7526.79	NIL
10.14	new	H095O	P & Laying GGBS Ready mixed M30 grade concrete - for 6-9 meter height	CUM	0.00	7635.69	NIL
10.15	new	H095P	P & Laying GGBS Ready mixed M20 grade concrete - for 9-12 meter height	CUM	0.00	7710.53	NIL
10.16	new	H095Q	P & Laying GGBS Ready mixed M20 grade concrete - for 9-12 meter height	CUM	0.00	7984.00	NIL
10.17	new	H095R	P & Laying GGBS Ready mixed M20 grade concrete - for 9-12 meter height	CUM	0.00	7984.00	NIL
10.18	new	H095S	P & Laying GGBS Ready mixed M20 grade concrete - for 12-15 meter height	CUM	0.00	8058.84	NIL
10.19	new	H095T	P & Laying GGBS Ready mixed M25 grade concrete - for 12-15 meter height	CUM	0.00	8223.39	NIL
10.20	new	H095U	P & Laying GGBS Ready mixed M30 grade concrete - for 12-15 meter height	CUM	0.00	8332.30	NIL
11	new	H097	Cement Concrete Pavement. Construction of Un-Reinforced Plain Cement Concrete Pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2 design mix, with 25 mm and down size graded granite metal coarse and fine aggregates, with superplasticiser @31. Its conforming to IS 9103 - 1999 Reaffirmed - 2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approval fixed side form work (Steel Channel, laying and fixing				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing. Spreading the concrete with shovels, rakers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation, membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (At 270 kg, per cum coarse aggregate @ 0.69 cum and fine aggregate @ 0.46 cum) replacing 25% (90 Kg) of cement content with Ground Granulated Blast Furnance Slag in mix design.				
11.1	new	H097A	P & Laying GGBS M20 Cement Concrete for Pavement	CUM	0.00	4222.44	NIL
11.2	new	H097B	P & Laying GGBS M25 Cement Concrete for Pavement	CUM	0.00	4387.00	NIL
11.3	new	H097C	P & Laying GGBS M30 Cement Concrete for Pavement	CUM	0.00	4570.84	NIL
12	7.8	H100	Labour charges for fabricating mild steel or torsteel bars of all sizes for reinforcement for RCC works including conveying steel to work spot with all lead including cleaning, straightening, bending, fabricating, placing in position and tying as per design including cost of binding wire, hoisting etc. with all lifts etc. complete (excluding the cost of steel) for:				
12.1	7.8.1	H100A	Staging upto 6 M height	M.T	5895.99	7152.50	21.31
12.2	7.8.2	H100B	Staging 6 to 9 M height	M.T	6216.78	7523.92	21.03
12.3	7.8.3	H100C	Staging 9 to 12M height	M.T	6363.18	7872.22	23.72
12.4	7.8.4	H100D	Staging 12 to 15M height	M.T	6672.73	7872.22	17.98
13.	7.9.	H110	Providing and fixing MS ladder between landings, 45 cms wide using angle iron of specified sizes, 20 mm MS bars at 25 cms. centre to centre, with necessary supports of same angle iron etc. as directed, including hand railing on both sides with 25 mm dia. GI pipes with angle iron props at 2 mtrs. intervals and 0.5M height, including fixing in ground with CC 1:2:4 and two coats of anticorrosive bituminous paint etc. with all lead and lifts etc. complete with:				
13.1	7.9.1	H110A	MS angle of 65 x 65 x 8 mm	RMT	2686.70	1615.03	-39.89
13.2	7.9.2	H110B	MS angle of 65 x 65 x 10 mm	RMT	3087.75	1742.93	-43.55

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
14.	7.10.	H120	Providing and fixing RCC final and ventilators as per approved design and specifications with form works and protected with wire mesh. The plinth to be of RCC circular pillars and canopy with an ornamental finish at top. The first 22.5 cms height to be covered with RCC paneling as per detailed drawings etc. with all lead and lifts and excluding reinforcement steel.				
14.1	7.10.1	H120A	For over head tanks upto 2.5 lakhs capacity.	NOS	3203.91	5589.39	74.46
14.2	7.10.2	H120B	For over head tanks 2.5 to 5.0 lakhs capacity.	NOS	3720.06	7938.95	113.41
14.3	7.10.3	H120C	For over head tanks 5 to 10 lakhs capacity.	NOS	4016.70	9566.97	138.18
15.	7.11	H140A	Providing and fixing MS inspection door of size 60 cms x 60 cms, including MS frame made of 50x50x6 mm angle, shutters made of 3 mm thick MS sheets, with hinges, locking arrangements at top etc. including painting with anticorrosive approved paint etc. complete including all lead and lifts etc.	NOS	1770.87	1729.78	-2.32
16.	7.12.1	H150	Providing and fixing gauge with iron sheet or enamelled Gauge plate of 3 mm to 4 mm thick, 0.23 M width with copper floats indicators and flexible nylon wires, painting figures with approved enamel paint etc. with all lead and lifts, complete for:				
16.1	7.12.1.1	H150A	M.S Gauge sheet for 1.5 Mtrs depth	NOS	2866.84	3281.54	14.47
16.2	7.12.1.2	H150B	MS Gauge sheet for 2.0 Mtrs depth	NOS	3426.71	4224.01	23.27
16.3	7.12.1.3	H150C	MS Gauge sheet for 2.5 Mtrs depth	NOS	3894.42	5166.49	32.66
16.4	7.12.1.4	H150D	Extra for MS Gauge sheet for every 0.5 M beyond 2.5 Mtrs depth	NOS	0.00	962.37	NIL
16.5	7.12.2.1	H150F	Enamelled Gauge plate for 1.5 Mtrs depth	NOS	2989.03	2853.21	-4.54
16.6	7.12.2.2	H150G	Enamelled Gauge plate for 2.0 Mtrs depth	NOS	3481.80	3441.28	-1.16
16.7	7.12.2.3	H150H	Enamelled Gauge plate for 2.5 Mtrs depth	NOS	3976.83	4029.34	1.32
16.8	7.12.2.4	H150I	Extra for enamelled Gauge plate for every 0.5 M beyond 2.5 Mtrs depth	NOS	0.00	714.92	NIL
17.	7.13.	H160	Supplying and fixing CI puddle flanges in position for RCC walls including hoisting and conveying them to work spot with all lead and lifts etc. complete (CI puddle flanges pipe rates are based on foundry grade pig iron (S1 2% - 2.5%) of Rs.32,050/- per MT. The rate of puddle flanges are inclusive of 4% VAT.				
17.1	7.13.1	H160A	For CI puddle flanges of 80 mm dia.	NOS	2522.84	2893.89	14.71
17.2	7.13.2	H160B	For CI puddle flanges of 100 mm dia.	NOS	3064.55	3522.21	14.93
17.3	7.13.3	H160C	For CI puddle flanges of 150 mm dia.	NOS	4875.50	5586.69	14.59

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
17.4	7.13.4	H160D	For CI puddle flanges of 200 mm dia.	NOS	7044.12	8036.37	14.09
17.5	7.13.5	H160E	For CI puddle flanges of 250 mm dia.	NOS	9324.33	10697.37	14.73
17.6	7.13.6	H160F	For CI puddle flanges of 300 mm dia.	NOS	11944.55	13645.35	14.24
17.7	7.13.7	H160G	For CI puddle flanges of 350 mm dia.	NOS	15945.96	18284.32	14.66
17.8	7.13.8	H160H	For CI puddle flanges of 400 mm dia.	NOS	19392.46	22289.35	14.94
17.9	7.13.9	H160I	For CI puddle flanges of 450 mm dia.	NOS	23236.73	26568.77	14.34
17.10	7.13.10	H160J	For CI puddle flanges of 500 mm dia.	NOS	27231.25	31123.07	14.29
17.11	7.13.11	H160K	For CI puddle flanges of 600 mm dia.	NOS	36388.49	41668.86	14.51
18.	7.14	H170	Supplying, Laying and Jointing Cast Iron (CI) double flanged pipes true to line / hoisting of CI flanged pipe in position and aligning to correct plumb, including cost of jointing materials, conveying to work spot with all lead and lifts etc. complete. CI double flanged pipes are based on foundry grade pig iron (S1 2% - 2.5%) of Rs.32,050/- per MT. The rate of puddle flanges are inclusive of 4% VAT.				
18.1	7.14.1	H170A	For double flanged CI pipes of 80 mm dia.	RMT	2182.73	2413.36	10.57
18.2	7.14.2	H170B	For double flanged CI pipes of 100 mm dia.	RMT	2739.86	3238.14	18.19
18.3	7.14.3	H170C	For double flanged CI pipes of 150 mm dia.	RMT	4372.40	5047.48	15.44
18.4	7.14.4	H170D	For double flanged CI pipes of 200 mm dia.	RMT	6243.84	7124.87	14.11
18.5	7.14.5	H170E	For double flanged CI pipes of 250 mm dia.	RMT	8375.49	9896.37	18.16
18.6	7.14.6	H170F	For double flanged CI pipes of 300 mm dia.	RMT	10742.74	12641.39	17.67
18.7	7.14.7	H170G	For double flanged CI pipes of 350 mm dia.	RMT	14464.48	16717.83	15.58
18.8	7.14.8	H170H	For double flanged CI pipes of 400 mm dia.	RMT	17512.38	20167.92	15.16
18.9	7.14.9	H170I	For double flanged CI pipes of 450 mm dia.	RMT	21055.20	24169.36	14.79
18.10	7.14.10	H170J	For double flanged CI pipes of 500 mm dia.	RMT	24675.43	28168.33	14.16
18.11	7.14.11	H170K	For double flanged CI pipes of 600 mm dia.	RMT	32980.68	36535.58	10.78
19.	7.15	H180	Supplying and fixing lightening arrestor with aluminium strip 25 mm x 3 mm size including finial and grounding, aluminium strip to be embeded in one of the columns in and independent GI conduit of 40 mm dia. pipe suitably jointed by collars with all specials with all lead and lifts etc. complete for:				
19.1	7.15.1	H180A	For Over Head Tanks upto 6 M staging	NOS	8465.70	4609.96	-45.55
19.2	7.15.2	H180B	For Over Head Tanks upto 9 M staging	NOS	10337.06	6124.49	-40.75
19.3	7.15.3	H180C	For Over Head Tanks upto 12M staging	NOS	12241.20	6972.56	-43.04
19.4	7.15.4	H180D	For Over Head Tanks upto 15M staging	NOS	14174.60	8942.23	-36.91

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
20.	7.18.1	H190	Providing plastering in CM 1:3 proportion after removing old plaster of existing RCC over head tanks, including smooth finishing, minimum 2% of approved quality water proofing compound, curing, scaffolding and giving satisfactory water proof testing as per direction etc. complete with all lead lifts etc. for side walls, shell portions, bottom doom, bottom slab and ribs etc. for:				
20.1	7.18.1.1	H190A	12 mm thick for exposed surfaces upto 6.0 Mtr. staging.	SQM	179.59	243.78	35.74
20.2	7.18.1.2	H190B	Over head tanks 6.0 to 9.0 Mtr. staging.	SQM	202.17	278.61	37.81
20.3	7.18.1.3	H190C	12 mm thick for exposed surfaces 9.0 to 12.0 Mtr. staging.	SQM	224.72	313.44	39.48
20.4	7.18.1.4	H190D	12 mm thick for exposed surfaces 12.0 to 15.0 Mtr. staging.	SQM	247.24	348.27	40.86
20.5	7.18.2.1	H190F	20 mm thick for exposed surfaces upto 6.0 Mtr. staging.	SQM	195.78	281.42	43.74
20.6	7.18.2.2	H190G	20 mm thick for exposed surfaces 6.0 to 9.0 Mtr. staging.	SQM	218.25	316.25	44.90
20.7	7.18.2.3	H190H	20 mm thick for exposed surfaces 9.0 to 12.0 Mtr. staging.	SQM	240.70	351.08	45.86
20.8	7.18.2.4	H190I	20 mm thick for exposed surfaces 12.0 to 15.0 Mtr. staging.	SQM	265.13	348.27	31.36
21.	7.19.1	H200	Providing plastering in CM 1:3 proportion for RCC over head tanks, including smooth finishing, minimum 2% of approved quality water proofing compound, curing, scaffolding and giving satisfactory water proof testing as per direction etc. complete with all lead lifts etc. for side walls, shell portions, bottom doom, bottom slab and ribs etc. for:				
21.1	7.19.1.1	H200A	12 mm thick for exposed surfaces upto 6.0 Mtr. staging.	SQM	166.53	220.59	32.46
21.2	7.19.1.2	H200B	Over head tanks 6.0 to 9.0 Mtr. staging.	SQM	189.16	255.42	35.03
21.3	7.19.1.3	H200C	12 mm thick for exposed surfaces 9.0 to 12.0 Mtr. staging.	SQM	211.74	290.25	37.08
21.4	7.19.1.4	H200D	12 mm thick for exposed surfaces 12.0 to 15.0 Mtr. staging.	SQM	233.23	325.08	39.38
21.5	7.19.2.1	H200F	20 mm thick for exposed surfaces upto 6.0 Mtr. staging.	SQM	180.74	258.22	42.87
21.6	7.19.2.2	H200G	20 mm thick for exposed surfaces 6.0 to 9.0 Mtr. staging.	SQM	202.19	293.06	44.94
21.7	7.19.2.3	H200H	20 mm thick for exposed surfaces 9.0 to 12.0 Mtr. staging.	SQM	225.66	327.89	45.30

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
21.8	7.19.2.4	H200I	20 mm thick for exposed surfaces 12.0 to 15.0 Mtr. staging.	SQM	250.04	325.08	30.01
22	7.16.1	H210	Providing two coats of water proof cement painting with approved colour and shade over one coat of primer including scrapping the surface with wire brushes etc. before removal of scaffolding for new RCC over head tanks and cleaning of paint stains wherever necessary with all lead and lifts etc. complete for:				
22.2	7.16.1.2	H210A	Tanks upto 6 Mtrs. staging.	SQM	102.35	116.88	14.20
22.3	7.16.1.3	H210B	Tanks staging above 6 Mtrs. and upto 9 Mtrs.	SQM	111.28	135.41	21.68
22.4	7.16.1.4	H210C	Tanks staging above 9 Mtrs. and upto 12 Mtrs.	SQM	121.27	153.93	26.93
22.5	7.16.1.5	H210D	Tanks staging above 12 Mtrs. and upto 15 Mtrs.	SQM	132.31	172.45	30.34
23.	7.16.2	H220	Providing two coats of water proof cement painting with approved colour and shade over one coat of primer including necessary scaffolding and scrapping of old paint and stain with wire brushes and cleaning of paint stains etc. wherever necessary for old RCC over head tanks with all lead and lifts etc. complete for:				
23.1	7.16.2.1	H220A	Tanks upto 6 Mtrs. staging.	SQM	111.80	128.44	14.88
23.2	7.16.2.2	H220B	Tanks staging above 6 Mtrs. and upto 9 Mtrs.	SQM	121.11	158.52	30.89
23.3	7.16.2.3	H220C	Tanks staging above 9 Mtrs. and upto 12 Mtrs.	SQM	133.20	177.04	32.91
23.4	7.16.2.4	H220D	Tanks staging above 12 Mtrs. and upto 15 Mtrs.	SQM	144.27	195.56	35.55
24.	7.17	H230A	Supplying and fixing 40 mm dia. GI pipe medium duty pipes hand railing 3 rows fixed to RCC 1:2:4 vibrated post of 150x150 mm at bottom and 100x150 mm at top, placed at 2 Mtrs. intervals for a height of 750 mm including curing, painting GI pipes with two coats of anticorrosive steel paint over a primer coat etc. with all lead lift etc. (The rate per meter is for 3 rows of GI pipes and RCC post)	RMT	955.51	1163.87	21.81

CHAPTER - 10

GROUND LEVEL SERVICE RESERVOIR

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	8.1	I010	Earth work EXCAVATION FOR FOUNDATION TRENCHES OR DRAINS by mechanical means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, removal of stumps and other deleterious matters, dressing of sides & ramming of bottoms to the extent required, utilizing the available excavated earth locally for the work etc. complete for:				
1.1	8.1.1	I010A	All types of soils upto 2.0 M depth Note : If any shoring and strutting, will be paid separately	CUM	0.00	182.70	NIL
1.2	8.1.2	I010B	All types of soils, depth 2.0 to 4.0 M Note : If any shoring and strutting, will be paid separately	CUM	0.00	270.96	NIL
1.3	8.1.3	I010C	All types of soils, depth 4.0 to 6.0 M Note : If any shoring and strutting, will be paid separately	CUM	0.00	347.66	NIL
1.4	8.1.4	I010D	All types of soils, depth 6.0 to 8.0 M Note : If any shoring and strutting, will be paid separately	CUM	0.00	424.36	NIL
1.5	8.1.5	I010E	All types of soils, depth 8 to 10 M Note : If any shoring and strutting, will be paid separately	CUM	0.00	501.06	NIL
2.	new	I020	Earth work EXCAVATION FOR FOUNDATION TRENCHES OR DRAINS by mechanical means as per drawing and technical specifications, including setting out, shoring, strutting, barricading, danger lighting bracing, removal of stumps and other deleterious matters, dressing of sides & ramming of bottoms to the extent required, utilizing the available excavated earth locally for the work etc. complete for:				
2.1	new	I020A	Ordinary Rock not requiring blasting upto 2.0 M depth	CUM	0.00	211.19	NIL
2.2	new	I020B	Ordinary Rock not requiring blasting, depth 2.0 to 4.0 M depth	CUM	0.00	303.58	NIL
2.3	new	I020C	Ordinary Rock not requiring blasting, depth 4.0 to 6.0 M depth	CUM	0.00	407.52	NIL
2.4	new	I020D	Ordinary Rock not requiring blasting, depth 6.0 to 8.0 M depth	CUM	0.00	499.90	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.5	new	I020E	Ordinary Rock not requiring blasting, depth 8.0 to 10.0 M depth	CUM	0.00	592.28	NIL
3.	8.2	I030A	Providing and laying PCC 1:3:6 proportion for foundations (Screed Layers) of ground level reservoir with 40 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including cost and conveyance of all materials with all lead and lifts including plywood / steel form work, machine mixing, laying, tamping, curing etc. complete.	CUM	2738.45	3870.08	41.32
4.	8.3.1	I040A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of raft, footings etc. for ground level reservoir with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, machine mixing, laying in layers of 15 cms , compacted, curing, smooth finishing etc. complete (excluding the cost of reinforcement).	CUM	3788.39	6025.91	59.06
5.	8.3.2	I050A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of main and secondary beams below and above floor level, with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, centering, scaffolding, machine mixing, compacting, curing, plastering exposed faces with CM 1:4 12 mm thick etc. complete (excluding the cost of reinforcement).	CUM	4278.86	8791.20	105.46
6.	8.4.1	I060A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of flat or sloping floor slabs resting on ground, with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, compacting, curing, plastering exposed faces with CM 1:3, 20 mm thick, with admixture of water proofing compound of approved quality in requisite proportion, making construction joints wherever necessary, giving satisfactory water proof test etc. complete (excluding the cost of reinforcement). The contractor will make his own arrangements for procuring water for testing.	CUM	4584.88	8174.57	78.29

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.	8.4.2	I070A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of vertical side walls, walls of effluent channel baffles etc. with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work for form finishing, compacting, curing, plastering exposed faces with CM 1:3, 20 mm thick, with admixture of water proofing compound of approved quality in requisite proportion, making construction joints wherever necessary, giving satisfactory water proof test etc. complete (excluding the cost of reinforcement). The contractor will make his own arrangements for procuring water for testing.	CUM	7239.48	12780.09	76.53
8.	8.5	I080A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of columns below and above floor level, with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, centering, scaffolding, machine mixing, compacting, curing, plastering exposed faces with CM 1:3 12 mm thick etc. complete (excluding the cost of reinforcement).	CUM	6922.02	10831.26	56.48
9.	8.6.1	I090A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of cover slab (flat slab), with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, centering, scaffolding, compacting, curing, plastering exposed faces with CM 1:3, 12 mm thick for inside surfaces etc. complete (excluding the cost of reinforcement).	CUM	6977.78	10177.75	45.86
10.	8.6.2	I100A	Providing and laying cement concrete 1:1.5:3 proportion for RCC works of dooms, with 20 mm and down size of approved gradation hard broken granite, trap, basalt or with any other approved hard aggregate including machine mixing, cost and conveyance of all materials with all lead and lifts including plywood / steel form work, centering, scaffolding, compacting, curing, plastering exposed faces with CM 1:3, 12 mm thick for inside and out side surfaces etc. complete (excluding the cost of reinforcement).	CUM	8555.88	16008.49	87.11

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
11.	8.7	I110A	Providing and constructing granite, trap, baslt or any other approved hard stone uncoursed rubble masonry in CM 1:4, in courses not less than 20 cms. high, including necessary scaffolding, curing etc., complete with all lead and lifts for all materials but excluding pointing.	CUM	2037.31	3649.93	79.15
12.	8.8	I110B	Providing and constructing granite, trap, basalt or any other approved hard granite stone COURSED RUBBLE MASONRY, second sort / size, in CM 1:4, excluding pointing, in courses not less than 20 cms. high with bond stones 2 Mtrs. apart in each course and all exposed quions 2 line dressed 5 cms. wide on each face including scaffolding, curing, all lead and lifts for materials, necessary hydraulic test for water tightness etc. complete. (The contractor will make his own arrangements for procuring water for testing).	CUM	1825.10	3931.26	115.40
13.	8.9.1	I110C	Providing grooved pointing to stone masonry works, in cement mortar 1:3 in fine sand, including scaffolding, racking out joints 25 mm deep, smooth finishing, curing etc. complete with all lead and lift for all materials etc.	SQM	83.48	196.73	135.66
14.	8.9.2	I110D	Providing tuck pointing to stone masonry works, in cement mortar 1:3 in fine sand, including scaffolding, racking out joints 25 mm deep, smooth finishing, curing etc. complete with all lead and lift for all materials etc.	SQM	0.00	217.93	NIL
15.	8.10.	I120	Providing plastering in cement mortar 1:3 proportion with minimum 2% of approved quality water proof compound, including scaffolding, racking out joints 25 mm deep, smooth finishing, curing etc. with all lead and lifts for all materials etc. complete for:				
15.1	8.10.1	I120A	20 mm thick plastering	SQM	84.83	276.25	225.65
15.2	8.10.1	I120B	25 mm thick plastering	SQM	84.00	302.30	259.88
15.3	8.10.1	I120C	30 mm thick plastering	SQM	84.00	333.56	297.10
16.	8.11	I130A	Labour charges for fabricating Mild Steel or Tor Steel bars of all sizes for reinforcement for RCC works, including conveying steel to work spot with all lead, cleaning, straightening, cutting, bending, fabricating, placing in position, tying as per design, cover blocks, binding wire, hoisting to different levels etc. complete but excluding the cost of MS or TS bars.	M.T	5150.72	11986.66	132.72
17.	8.12	I130B	Labour charges for M.S ladder,final,lightening arrestor and fixing Gauge	SQM	146.06	146.06	0.00

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
18.	8.13	I140A	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to RCC structures like floor and walls of reservoirs, sewage, effluent and water treatment plants, over head tanks, etc. prepared by mixing in the ratio of 5:2 (5 parts integral crystalline slurry 2 parts water) for horizontal and vertical surfaces and applying the same from negative (internal) side with the help of synthetic fibre brush. The material shall meet the requirements as specified in ACI - 212-3R-2010 ie. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 Bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self healing of cracks upto a width of 0.50 mm. The work shall be carried out all complete as per specification and the direction of the Engineer in charge. The product performance shall carry guarantee for 10 years against any leakage. For horizontal and vertical surfaces in two coats @ 0.70 kg per sqm per coat	SQM	464.99	462.26	-0.59
19.	8.14	I150A	Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts integral crystalline mortar : 1 parts water) for treatment of faulty construction joints, cracks, tie rod holes, spalled and honey combed surface, coves at junction joints of RCC structures like floor and walls of reservoirs, sewage, effluent and water treatment plants, over head tanks, etc. The crystalline mortar shall conform to EN 1504-3 having compressive strength class R4 > 45 MPa and adhesive bond strength class R3 > 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer in charge. The product performance shall carry guarantee for 10 years against any leakage. For sealing cracks and faulty construction joints, and making coves at junction joints by preparing the surface, making U shaped groove size 25 mm x 25 mm and then priming the surface with integral crystalline slurry @ 0.05 kg per running meter and while the surface is tacky, then filling the groove up to top edge with crystalline mortar @ 1.50 kg per running meter. Once crystalline mortar is touch dry then finally applying two coats of integral crystalline slurry @ 0.05 kg per running meter per coat on treated surface.	SQM	513.93	516.12	0.43

CHAPTER - 11

RCC INTERLOCK SLABS FOR COMPOUND WALL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	9.1.	J010A	Providing and laying in position reinforced cement concrete of design mix M20, with OP cement @ 320 kgs/cum, 20 mm and down size graded granite metal coarse aggregate @ 0.69 per/cum, fine aggregate @ 0.46 per/cum, super plasticizer conforming to IS 9103-1999 reaffirmed 2008 @ 3 ltr / cum, machine mixed, laid into fabricated steel form work, vibrated / compacted and cured for RCC precast columns of size 200 x 200 x 3000 mm. The precast columns to have grooves of size 50 mm x 90 mm on opposite vertical faces suitable to insert 70 mm thick precast slab panels. The precast columns to have 8 nos of 16 mm dia. vertical bars and 8 mm dia. ties at 200 mm centre to centre. The rate includes cost of reinforcement steel, repetitive cost of fabricated steel form work and fixing in position at site as directed by Engineer in charge, cost of all materials, labour, HOM of machinery, casting yard, curing etc. complete as per specifications. The rate excludes the cost of RCC footings and other related works.	NOS	3593.27	3036.99	-15.48
2.	9.2.	J020A	Providing and erecting in position, 2400 x 600 x 60 mm size precast slab panels of M25 grade design mix reinforced cement concrete with OP cement @ 320 kgs/cum, 20 mm and down size graded granite metal coarse aggregate, super plasticizer conforming to IS 9103-1999 reaffirmed 2008 @ 3 ltr / cum, machine mixed, laid into fabricated steel form work, vibrated / compacted and cured for RCC precast slabs with groove finish, one BWSSB logo and other side plain finish. The precast slabs to have reinforcements 1no. of 10 mm dia. loop and round the panel, 5 Nos of 8 mm dia. horizontals and 15 Nos of 8 mm dia. verticals equally spaced. The thickness of panel shall be 60 mm thick at the middle and 70 mm thick at the edges for a width of 250 mm. The gaps between the panels shall be packed with CM 1:4 and final surface between the panel and RCC post shall be finished using silicon sealant of approved make etc. The cost includes the cost of all materials, labour, HOM of machinery, casting yard, curing etc. complete as per specifications. The rate excludes the cost of RCC footings and other related works.	NOS	1863.94	1627.62	-12.68

CHAPTER - 12

HDPE PIPE WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	10.1.a.1	K010	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
1.1	10.1.a.1.1	K010A	HDPE Grade PE80-PN6.0, 90 mm dia	RMT	249.66	323.90	29.74
1.2	10.1.a.1.2	K010B	HDPE Grade PE80-PN6.0,110 mm dia	RMT	370.42	463.09	25.02
1.3	10.1.a.1.3	K010C	HDPE Grade PE80-PN6.0,125 mm dia	RMT	452.42	560.17	23.82
1.4	10.1.a.1.4	K010D	HDPE Grade PE80-PN6.0,140 mm dia	RMT	561.28	690.09	22.95
1.5	10.1.a.1.5	K010E	HDPE Grade PE80-PN6.0,160 mm dia	RMT	719.87	878.14	21.99
1.6	10.1.a.1.6	K010F	HDPE Grade PE80-PN6.0,180 mm dia	RMT	898.07	1085.47	20.87
1.7	10.1.a.1.7	K010G	HDPE Grade PE80-PN6.0,200 mm dia	RMT	1105.37	1337.58	21.01
1.8	10.1.a.1.8	K010H	HDPE Grade PE80-PN6.0,225 mm dia	RMT	1376.57	1656.20	20.31
1.9	10.1.a.1.9	K010I	HDPE Grade PE80-PN6.0,250 mm dia	RMT	1690.69	2019.09	19.42
1.10	10.1.a.1.10	K010J	HDPE Grade PE80-PN6.0,280 mm dia	RMT	2099.24	2500.04	19.09
1.11	10.1.a.1.11	K010K	P,L&J HDPE- PE80-PN6.0,315 mm dia	RMT	2645.30	3123.37	18.07
1.12	10.1.a.1.12	K010L	HDPE Grade PE80-PN6.0,355 mm dia	RMT	3342.22	3910.29	17.00
1.13	10.1.a.1.13	K010M	HDPE Grade PE80-PN6.0,400 mm dia	RMT	4325.62	5034.20	16.38
1.14	10.1.a.1.14	K010N	HDPE Grade PE80-PN6.0,450 mm dia	RMT	5443.67	6301.85	15.76
1.15	10.1.a.1.15	K010O	HDPE Grade PE80-PN6.0,500 mm dia	RMT	6717.88	7738.47	15.19
1.16	10.1.a.1.16	K010P	HDPE Grade PE80-PN6.0,560 mm dia	RMT	8375.27	9624.34	14.91
1.17	10.1.a.1.17	K010Q	HDPE Grade PE80-PN6.0,630 mm dia	RMT	10588.36	12120.64	14.47
1.18	10.1.a.1.18	K010R	HDPE Grade PE80-PN6.0,710 mm dia	RMT	13733.44	15662.97	14.05
2.	10.1.a.2.	K020	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : :				
2.1	10.1.a.2.1	K020A	HDPE Grade PE80-PN8.0,90 mm dia	RMT	311.43	393.21	26.26
2.2	10.1.a.2.2	K020B	HDPE Grade PE80-PN8.0,110 mm dia	RMT	462.26	564.27	22.07
2.3	10.1.a.2.3	K020C	HDPE Grade PE80-PN8.0,125 mm dia	RMT	567.27	689.09	21.47
2.4	10.1.a.2.4	K020D	HDPE Grade PE80-PN8.0,140 mm dia	RMT	702.34	846.77	20.56
2.5	10.1.a.2.5	K020E	HDPE Grade PE80-PN8.0,160 mm dia	RMT	804.80	973.84	21.00
2.6	10.1.a.2.6	K020F	HDPE Grade PE80-PN8.0,180 mm dia	RMT	1136.45	1342.50	18.13
2.7	10.1.a.2.7	K020G	HDPE Grade PE80-PN8.0,200 mm dia	RMT	1345.69	1584.53	17.75
2.8	10.1.a.2.8	K020H	HDPE Grade PE80-PN8.0,225 mm dia	RMT	1743.31	2067.60	18.60
2.9	10.1.a.2.9	K020I	HDPE Grade PE80-PN8.0,250 mm dia	RMT	2146.22	2530.73	17.92
2.10	10.1.a.2.10	K020J	HDPE Grade PE80-PN8.0,280 mm dia	RMT	2672.51	3143.62	17.63
2.11	10.1.a.2.11	K020K	HDPE Grade PE80-PN8.0,315 mm dia	RMT	3371.05	3937.94	16.82
2.12	10.1.a.2.12	K020L	HDPE Grade PE80-PN8.0,355 mm dia	RMT	5363.14	6177.85	15.19
2.13	10.1.a.2.13	K020M	HDPE Grade PE80-PN8.0,400 mm dia	RMT	5510.76	6363.77	15.48
2.14	10.1.a.2.14	K020N	HDPE Grade PE80-PN8.0,450 mm dia	RMT	6955.99	7999.44	15.00
2.15	10.1.a.2.15	K020O	HDPE Grade PE80-PN8.0,500 mm dia	RMT	8564.12	9809.68	14.54
2.16	10.1.a.2.16	K020P	HDPE Grade PE80-PN8.0,560 mm dia	RMT	10709.69	12245.33	14.34
2.17	10.1.a.2.17	K020Q	HDPE Grade PE80-PN8.0,630 mm dia	RMT	13538.68	14691.14	8.51
2.18	10.1.a.2.18	K020R	HDPE Grade PE80-PN8.0,710 mm dia	RMT	17558.14	19954.62	13.65
3.	0	K030	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			(Contractor will make his own arrangements for procuring water for testing) etc. for ::				
3.1	10.1.a.3.1	K030A	HDPE Grade PE80-PN10.0,90 mm dia	RMT	369.34	458.66	24.18
3.2	10.1.a.3.2	K030B	HDPE Grade PE80-PN10.0,110 mm dia	RMT	542.21	654.03	20.62
3.3	10.1.a.3.3	K030C	HDPE Grade PE80-PN10.0,125 mm dia	RMT	671.50	805.78	20.00
3.4	10.1.a.3.4	K030D	HDPE Grade PE80-PN10.0,140 mm dia	RMT	833.44	994.87	19.37
3.5	10.1.a.3.5	K030E	HDPE Grade PE80-PN10.0,160 mm dia	RMT	1075.99	1277.90	18.77
3.6	10.1.a.3.6	K030F	HDPE Grade PE80-PN10.0,180 mm dia	RMT	1352.63	1595.50	17.96
3.7	10.1.a.3.7	K030G	HDPE Grade PE80-PN10.0,200 mm dia	RMT	1659.19	1937.96	16.80
3.8	10.1.a.3.8	K030H	HDPE Grade PE80-PN10.0,225 mm dia	RMT	2085.92	2452.45	17.57
3.9	10.1.a.3.9	K030I	HDPE Grade PE80-PN10.0,250 mm dia	RMT	2564.11	2996.04	16.85
3.10	10.1.a.3.10	K030J	HDPE Grade PE80-PN10.0,280 mm dia	RMT	3198.49	3733.79	16.74
3.11	10.1.a.3.11	K030K	HDPE Grade PE80-PN10.0,315 mm dia	RMT	4035.04	4682.95	16.06
3.12	10.1.a.3.12	K030L	HDPE Grade PE80-PN10.0,355 mm dia	RMT	5109.32	5892.86	15.34
3.13	10.1.a.3.13	K030M	HDPE Grade PE80-PN10.0,400 mm dia	RMT	6600.36	7585.62	14.93
3.14	10.1.a.3.14	K030N	HDPE Grade PE80-PN10.0,450 mm dia	RMT	8342.84	9554.53	14.52
3.15	10.1.a.3.15	K030O	HDPE Grade PE80-PN10.0,500 mm dia	RMT	10276.21	11730.54	14.15
3.16	10.1.a.3.16	K030P	HDPE Grade PE80-PN10.0,560 mm dia	RMT	12871.68	14669.98	13.97
3.17	10.1.a.3.17	K030Q	HDPE Grade PE80-PN10.0,630 mm dia	RMT	16244.82	18466.67	13.68
4.	10.1.a.4	K040	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
4.1	10.1.a.4.1	K040A	HDPE Grade PE80-PN12.5,90 mm dia	RMT	432.07	528.22	22.25
4.2	10.1.a.4.2	K040B	HDPE Grade PE80-PN12.5,110 mm dia	RMT	644.66	769.59	19.38
4.3	10.1.a.4.3	K040C	HDPE Grade PE80-PN12.5,125 mm dia	RMT	791.17	940.42	18.86
4.4	10.1.a.4.4	K040D	HDPE Grade PE80-PN12.5,140 mm dia	RMT	984.00	1164.30	18.32
4.5	10.1.a.4.5	K040E	HDPE Grade PE80-PN12.5,160 mm dia	RMT	1270.94	1496.69	17.76

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
4.6	10.1.a.4.6	K040F	HDPE Grade PE80-PN12.5,180 mm dia	RMT	1619.00	1893.95	16.98
4.7	10.1.a.4.7	K040G	HDPE Grade PE80-PN12.5,200 mm dia	RMT	1969.95	2286.90	16.09
4.8	10.1.a.4.8	K040H	HDPE Grade PE80-PN12.5,225 mm dia	RMT	2505.74	2923.12	16.66
4.9	10.1.a.4.9	K040I	HDPE Grade PE80-PN12.5,250 mm dia	RMT	3038.94	3531.55	16.21
4.10	10.1.a.4.10	K040J	HDPE Grade PE80-PN12.5,280 mm dia	RMT	3807.47	4417.09	16.01
4.11	10.1.a.4.11	K040K	HDPE Grade PE80-PN12.5,315 mm dia	RMT	4789.75	5528.94	15.43
4.12	10.1.a.4.12	K040L	HDPE Grade PE80-PN12.5,355 mm dia	RMT	6078.28	6980.08	14.84
4.13	10.1.a.4.13	K040M	HDPE Grade PE80-PN12.5,400 mm dia	RMT	7854.03	8992.61	14.50
4.14	new	K040N	HDPE Grade PE80-PN12.5,450 mm dia	RMT	0.00	10278.22	NIL
4.15	new	K040O	HDPE Grade PE80-PN12.5,500 mm dia	RMT	0.00	12538.38	NIL
5.	10.1.a.5	K050	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
5.1	10.1.a.5.1	K050A	HDPE Grade PE80-PN16.0,90 mm dia	RMT	516.03	622.47	20.63
5.2	10.1.a.5.2	K050B	HDPE Grade PE80-PN16.0,110 mm dia	RMT	764.34	904.23	18.30
5.3	10.1.a.5.3	K050C	HDPE Grade PE80-PN16.0,125 mm dia	RMT	930.14	1096.38	17.87
5.4	10.1.a.5.4	K050D	HDPE Grade PE80-PN16.0,140 mm dia	RMT	1174.12	1377.48	17.32
5.5	10.1.a.5.5	K050E	HDPE Grade PE80-PN16.0,160 mm dia	RMT	1518.01	1773.82	16.85
5.6	10.1.a.5.6	K050F	HDPE Grade PE80-PN16.0,180 mm dia	RMT	1910.46	2221.57	16.28
5.7	10.1.a.5.7	K050G	HDPE Grade PE80-PN16.0,200 mm dia	RMT	2346.34	2708.77	15.45
5.8	10.1.a.5.8	K050H	HDPE Grade PE80-PN16.0,225 mm dia	RMT	2961.26	3434.20	15.97
5.9	10.1.a.5.9	K050I	HDPE Grade PE80-PN16.0,250 mm dia	RMT	3638.27	4204.75	15.57
5.10	10.1.a.5.10	K050J	HDPE Grade PE80-PN16.0,280 mm dia	RMT	3470.65	4038.98	16.38
5.11	10.1.a.5.11	K050K	HDPE Grade PE80-PN16.0,315 mm dia	RMT	5746.17	6602.69	14.91
5.12	10.1.a.5.12	K050L	HDPE Grade PE80-PN16.0,355 mm dia	RMT	7278.87	8327.60	14.41
5.13	10.1.a.5.13	K050M	HDPE Grade PE80-PN16.0,400 mm dia	RMT	9402.05	10729.47	14.12

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
6.	10.1.b.1	K060	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
6.1	10.1.b.1.1	K060A	HDPE Grade PE100-PN6.0, 90 mm dia	RMT	216.85	286.99	32.34
6.2	10.1.b.1.2	K060B	HDPE Grade PE100-PN6.0,110 mm dia	RMT	316.53	401.58	26.87
6.3	10.1.b.1.3	K060C	HDPE Grade PE100-PN6.0,125 mm dia	RMT	381.97	481.52	26.06
6.4	10.1.b.1.4	K060D	HDPE Grade PE100-PN6.0,140 mm dia	RMT	474.42	592.64	24.92
6.5	10.1.b.1.5	K060E	HDPE Grade PE100-PN6.0,160 mm dia	RMT	604.87	750.56	24.09
6.6	10.1.b.1.6	K060F	HDPE Grade PE100-PN6.0,180 mm dia	RMT	757.16	927.91	22.55
6.7	10.1.b.1.7	K060G	HDPE Grade PE100-PN6.0,200 mm dia	RMT	925.71	1137.72	22.90
6.8	10.1.b.1.8	K060H	HDPE Grade PE100-PN6.0,225 mm dia	RMT	1160.39	1413.47	21.81
6.9	10.1.b.1.9	K060I	HDPE Grade PE100-PN6.0,250 mm dia	RMT	1414.67	1709.42	20.84
6.10	10.1.b.1.10	K060J	HDPE Grade PE100-PN6.0,280 mm dia	RMT	1761.45	2121.48	20.44
6.11	10.1.b.1.11	K060K	P,L&J HDPE- PE100-PN6.0,315 mm dia	RMT	2218.72	2644.28	19.18
6.12	10.1.b.1.12	K060L	HDPE Grade PE100-PN6.0,355 mm dia	RMT	2800.80	3303.28	17.94
6.13	10.1.b.1.13	K060M	HDPE Grade PE100-PN6.0,400 mm dia	RMT	3603.72	4224.11	17.22
6.14	10.1.b.1.14	K060N	HDPE Grade PE100-PN6.0,450 mm dia	RMT	4547.09	5296.54	16.48
6.15	10.1.b.1.15	K060O	HDPE Grade PE100-PN6.0,500 mm dia	RMT	5602.22	6486.32	15.78
6.16	10.1.b.1.16	K060P	HDPE Grade PE100-PN6.0,560 mm dia	RMT	7121.60	8218.48	15.40
6.17	10.1.b.1.17	K060Q	HDPE Grade PE100-PN6.0,630 mm dia	RMT	8996.91	10334.97	14.87
6.18	10.1.b.1.18	K060R	HDPE Grade PE100-PN6.0,710 mm dia	RMT	11377.63	13020.66	14.44
7.	10.1.b.2	K070	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : :				
7.1	10.1.b.2.1	K070A	HDPE Grade PE100-PN8.0,90 mm dia	RMT	268.97	345.33	28.39
7.2	10.1.b.2.2	K070B	HDPE Grade PE100-PN8.0,110 mm dia	RMT	395.67	490.21	23.89
7.3	10.1.b.2.3	K070C	HDPE Grade PE100-PN8.0,125 mm dia	RMT	480.41	591.48	23.12
7.4	10.1.b.2.4	K070D	HDPE Grade PE100-PN8.0,140 mm dia	RMT	596.99	730.08	22.29
7.5	10.1.b.2.5	K070E	HDPE Grade PE100-PN8.0,160 mm dia	RMT	766.20	930.08	21.39
7.6	10.1.b.2.6	K070F	HDPE Grade PE100-PN8.0,180 mm dia	RMT	959.84	1143.91	19.18
7.7	10.1.b.2.7	K070G	HDPE Grade PE100-PN8.0,200 mm dia	RMT	1174.71	1394.91	18.75
7.8	10.1.b.2.8	K070H	HDPE Grade PE100-PN8.0,225 mm dia	RMT	1474.04	1765.78	19.79
7.9	10.1.b.2.9	K070I	HDPE Grade PE100-PN8.0,250 mm dia	RMT	1806.50	2149.25	18.97
7.10	10.1.b.2.10	K070J	HDPE Grade PE100-PN8.0,280 mm dia	RMT	225076.00	2670.14	-98.81
7.11	10.1.b.2.11	K070K	HDPE Grade PE100-PN8.0,315 mm dia	RMT	2835.42	3336.55	17.67
7.12	10.1.b.2.12	K070L	HDPE Grade PE100-PN8.0,355 mm dia	RMT	3578.67	4175.08	16.67
7.13	10.1.b.2.13	K070M	HDPE Grade PE100-PN8.0,400 mm dia	RMT	4620.94	5365.19	16.11
7.14	10.1.b.2.14	K070N	HDPE Grade PE100-PN8.0,450 mm dia	RMT	5834.54	6740.55	15.53
7.15	10.1.b.2.15	K070O	HDPE Grade PE100-PN8.0,500 mm dia	RMT	7184.20	8261.32	14.99
7.16	10.1.b.2.16	K070P	HDPE Grade PE100-PN8.0,560 mm dia	RMT	9165.69	10511.84	14.69
7.17	10.1.b.2.17	K070Q	HDPE Grade PE100-PN8.0,630 mm dia	RMT	11558.29	13208.98	14.28
7.18	10.1.b.2.18	K070R	HDPE Grade PE100-PN8.0,710 mm dia	RMT	14647.39	16688.48	13.93
8	10.1.b.3	K080	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for ::				
8.1	10.1.b.3.1	K080A	HDPE Grade PE100-PN10.0,90 mm dia	RMT	319.15	401.43	25.78

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
8.2	10.1.b.3.2	K080B	HDPE Grade PE100-PN10.0,110 mm dia	RMT	467.09	569.88	22.01
8.3	10.1.b.3.3	K080C	HDPE Grade PE100-PN10.0,125 mm dia	RMT	571.13	693.58	21.44
8.4	10.1.b.3.4	K080D	HDPE Grade PE100-PN10.0,140 mm dia	RMT	709.91	856.87	20.70
8.5	10.1.b.3.5	K080E	HDPE Grade PE100-PN10.0,160 mm dia	RMT	915.79	1098.38	19.94
8.6	10.1.b.3.6	K080F	HDPE Grade PE100-PN10.0,180 mm dia	RMT	1152.86	1371.10	18.93
8.7	10.1.b.3.7	K080G	HDPE Grade PE100-PN10.0,200 mm dia	RMT	1413.09	1661.94	17.61
8.8	10.1.b.3.8	K080H	HDPE Grade PE100-PN10.0,225 mm dia	RMT	1769.36	2096.77	18.50
8.9	10.1.b.3.9	K080I	HDPE Grade PE100-PN10.0,250 mm dia	RMT	2169.38	2556.53	17.85
8.10	10.1.b.3.10	K080J	HDPE Grade PE100-PN10.0,280 mm dia	RMT	2703.39	3177.28	17.53
8.11	10.1.b.3.11	K080K	HDPE Grade PE100-PN10.0,315 mm dia	RMT	3414.48	3986.19	16.74
8.12	10.1.b.3.12	K080L	HDPE Grade PE100-PN10.0,355 mm dia	RMT	4331.45	5019.94	15.90
8.13	10.1.b.3.13	K080M	HDPE Grade PE100-PN10.0,400 mm dia	RMT	5594.73	6458.01	15.43
8.14	10.1.b.3.14	K080N	HDPE Grade PE100-PN10.0,450 mm dia	RMT	7038.98	8092.56	14.97
8.15	10.1.b.3.15	K080O	HDPE Grade PE100-PN10.0,500 mm dia	RMT	8683.79	9943.20	14.50
8.16	10.1.b.3.16	K080P	HDPE Grade PE100-PN10.0,560 mm dia	RMT	11061.15	12638.03	14.26
8.17	10.1.b.3.17	K080Q	HDPE Grade PE100-PN10.0,630 mm dia	RMT	13993.24	15941.05	13.92
8.18	10.1.b.3.18	K080R	HDPE Grade PE100-PN10.0, 710 mm dia	RMT	17750.19	20160.31	13.58
9.	10.1.b.4	K090	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
9.1	10.1.b.4.1	K090A	HDPE Grade PE100-PN12.5,90 mm dia	RMT	375.13	464.27	23.76
9.2	10.1.b.4.2	K090B	HDPE Grade PE100-PN12.5,110 mm dia	RMT	544.02	666.37	22.49
9.3	10.1.b.4.3	K090C	HDPE Grade PE100-PN12.5,125 mm dia	RMT	677.29	812.51	19.96
9.4	10.1.b.4.4	K090D	HDPE Grade PE100-PN12.5,140 mm dia	RMT	846.95	1010.58	19.32
9.5	10.1.b.4.5	K090E	HDPE Grade PE100-PN12.5,160 mm dia	RMT	1092.40	1295.85	18.62
9.6	10.1.b.4.6	K090F	HDPE Grade PE100-PN12.5,180 mm dia	RMT	1372.90	1617.94	17.85
9.7	10.1.b.4.7	K090G	HDPE Grade PE100-PN12.5,200 mm dia	RMT	1684.28	1966.01	16.73

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
9.8	10.1.b.4.8	K090H	HDPE Grade PE100-PN 12.5, 225 mm dia	RMT	2119.70	2489.47	17.44
9.9	10.1.b.4.9	K090I	HDPE Grade PE100-PN 12.5, 250 mm dia	RMT	2596.92	3035.63	16.89
9.10	10.1.b.4.10	K090J	HDPE Grade PE100-PN 12.5, 280 mm dia	RMT	3242.88	3783.16	16.66
9.11	10.1.b.4.11	K090K	HDPE Grade PE100-PN 12.5, 315 mm dia	RMT	4093.91	4748.03	15.98
9.12	10.1.b.4.12	K090L	HDPE Grade PE100-PN 12.5, 355 mm dia	RMT	5186.53	5979.25	15.28
9.13	10.1.b.4.13	K090M	HDPE Grade PE100-PN 12.5, 400 mm dia	RMT	6708.45	7706.80	14.88
9.14	10.1.b.4.14	K090N	HDPE Grade PE100-PN 12.5, 450 mm dia	RMT	0.00	8819.62	NIL
9.15	10.1.b.4.15	K090O	HDPE Grade PE100-PN 12.5, 500 mm dia	RMT	0.00	10855.38	NIL
10.	10.1.b.5	K100	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984-1995 with latest amendments and conveying to work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for :				
10.1	10.1.b.5.1	K100A	HDPE Grade PE100-PN16.0, 90 mm dia	RMT	458.13	557.39	21.67
10.2	10.1.b.5.2	K100B	HDPE Grade PE100-PN16.0, 110 mm dia	RMT	676.51	805.50	19.07
10.3	10.1.b.5.3	K100C	HDPE Grade PE100-PN16.0, 125 mm dia	RMT	814.33	966.23	18.65
10.4	10.1.b.5.4	K100D	HDPE Grade PE100-PN16.0, 140 mm dia	RMT	1014.88	1199.08	18.15
10.5	10.1.b.5.5	K100E	HDPE Grade PE100-PN16.0, 160 mm dia	RMT	1316.30	1547.18	17.54
10.6	10.1.b.5.6	K100F	HDPE Grade PE100-PN16.0, 180 mm dia	RMT	1651.81	1930.98	16.90
10.7	10.1.b.5.7	K100G	HDPE Grade PE100-PN16.0, 200 mm dia	RMT	2032.68	2335.14	14.88
10.8	10.1.b.5.8	K100H	HDPE Grade PE100-PN16.0, 225 mm dia	RMT	2555.92	2979.79	16.58
10.9	10.1.b.5.9	K100I	HDPE Grade PE100-PN 16.0, 250 mm dia	RMT	3142.20	3648.24	16.10
10.10	10.1.b.5.10	K100J	HDPE Grade PE100-PN 16.0, 280 mm dia	RMT	3926.18	4549.49	15.88
10.11	10.1.b.5.11	K100K	HDPE Grade PE100-PN 16.0, 315 mm dia	RMT	4948.99	5707.34	15.32
10.12	10.1.b.5.12	K100L	HDPE Grade PE100-PN 16.0, 355 mm dia	RMT	6269.37	7194.38	14.75
10.13	10.1.b.5.13	K100M	HDPE Grade PE100-PN 16.0, 450 mm dia	RMT	10258.56	11704.28	14.09
10.14	10.1.b.5.14	K100N	HDPE Grade PE100-PN 16.0, 500 mm dia	RMT	12638.78	14380.71	13.78
11.	new	K110	Providing fusion welding Jointing for HDPE Pipes Grade PE-80 / PE-100 conforming to IS 4984-1995, of specified dia. etc. for:				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
11.1	NEW	K110A	HDPE Grade PE80 Pipes 90 mm dia	RMT	0.00	40.96	NIL
11.2	NEW	K110B	HDPE Grade PE80 Pipes 110 mm dia	RMT	0.00	48.32	NIL
11.3	NEW	K110C	HDPE Grade PE80 Pipes 125 mm dia	RMT	0.00	56.25	NIL
11.4	NEW	K110D	HDPE Grade PE80 Pipes 140 mm dia	RMT	0.00	69.93	NIL
11.5	NEW	K110E	HDPE Grade PE80 Pipes 160 mm dia	RMT	0.00	77.85	NIL
11.6	NEW	K110F	HDPE Grade PE80 Pipes 180 mm dia	RMT	0.00	84.94	NIL
11.7	NEW	K110G	HDPE Grade PE80 Pipes 200 mm dia	RMT	0.00	99.39	NIL
11.8	NEW	K110H	HDPE Grade PE80 Pipes 225 mm dia	RMT	0.00	114.12	NIL
11.9	NEW	K110I	HDPE Grade PE80 Pipes 250 mm dia	RMT	0.00	128.85	NIL
11.10	NEW	K110J	HDPE Grade PE80 Pipes 280 mm dia	RMT	0.00	143.58	NIL
11.11	NEW	K110K	HDPE Grade PE80 Pipes 315 mm dia	RMT	0.00	158.87	NIL
11.12	NEW	K110L	HDPE Grade PE80 Pipes 355 mm dia	RMT	0.00	180.97	NIL
11.13	NEW	K110M	HDPE Grade PE80 Pipes 400 mm dia	RMT	0.00	203.06	NIL
11.14	NEW	K110N	HDPE Grade PE80 Pipes 450 mm dia	RMT	0.00	231.47	NIL
11.15	NEW	K110O	HDPE Grade PE80 Pipes 500 mm dia	RMT	0.00	253.57	NIL
11.16	NEW	K110P	HDPE Grade PE80 Pipes 560 mm dia	RMT	0.00	285.14	NIL
11.17	NEW	K110Q	HDPE Grade PE80 Pipes 630 mm dia	RMT	0.00	327.22	NIL
11.18	NEW	K110R	HDPE Grade PE80 Pipes 710 mm dia	RMT	0.00	366.15	NIL
12.	NEW	K120	Providing, laying and testing MDPE (black) PE-80 pipes conforming to relevant IS specifications with latest amendments etc. for:				
12.1	NEW	K120A	MDPE Pipe 6kg/cm ² , 4.3 mm thick	RMT	0.00	120.02	NIL
12.2	NEW	K120B	MDPE Pipe 8kg/cm ² , 5.4 mm thick	RMT	0.00	148.79	NIL
12.3	NEW	K120C	MDPE Pipe 10kg/cm ² , 6.7 mm thick	RMT	0.00	178.54	NIL
12.4	NEW	K120D	MDPE Pipe 6kg/cm ² , 5.3 mm thick	RMT	0.00	178.54	NIL
12.5	NEW	K120E	MDPE Pipe 8kg/cm ² , 6.6 mm thick	RMT	0.00	218.22	NIL
13.	NEW	K130	Supplying and installation of Class SN8 Double Wall Corrugated HDPE pipe outer wall corrugated and inner wall smooth piping system in accordance with IS 16098 part 2 and conveying to work site and lowering into trenches, laying true to line and level and perfect linking at joints with the help of two "O" rings and a coupler of suitable size, including loading and unloading at both destination and cutting of pipes where ever necessary including jointing with all labor, all lead and lift including encasing the pipe around to a depth of not less than 15 cm with screened soft soil available from the excavated soil. The testing commissioning including necessary hydraulic				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			test to the required pressure as per ISS shall be done the contractor shall have to make his own arrangement for procuring water for testing				
13.1	NEW	K130A	SN8 Double Wall Corrugated HDPE pipe sizes of 100 mm dia	MTR	0.00	179.45	NIL
13.2	NEW	K130B	SN8 Double Wall Corrugated HDPE pipe sizes of 135 mm dia	MTR	0.00	237.89	NIL
13.3	NEW	K130C	SN8 Double Wall Corrugated HDPE pipe sizes of 150 mm dia	MTR	0.00	290.15	NIL
13.4	NEW	K130D	SN8 Double Wall Corrugated HDPE pipe sizes of 170 mm dia	MTR	0.00	379.35	NIL
13.5	NEW	K130E	SN8 Double Wall Corrugated HDPE pipe sizes of 200 mm dia	MTR	0.00	576.39	NIL
13.6	NEW	K130F	SN8 Double Wall Corrugated HDPE pipe sizes of 250 mm dia	MTR	0.00	774.04	NIL
13.7	NEW	K130G	SN8 Double Wall Corrugated HDPE pipe sizes of 300 mm dia	MTR	0.00	1162.29	NIL
13.8	NEW	K130H	SN8 Double Wall Corrugated HDPE pipe sizes of 400 mm dia	MTR	0.00	1758.24	NIL
13.9	NEW	K130I	SN8 Double Wall Corrugated HDPE pipe sizes of 500 mm dia	MTR	0.00	2597.12	NIL
13.10	NEW	K130J	SN8 Double Wall Corrugated HDPE pipe sizes of 600 mm dia	MTR	0.00	3528.23	NIL
13.11	NEW	K130K	SN8 Double Wall Corrugated HDPE pipe sizes of 800 mm dia	MTR	0.00	5548.49	NIL
13.12	NEW	K130L	SN8 Double Wall Corrugated HDPE pipe sizes of 1000 mm dia	MTR	0.00	8783.55	NIL
14.	NEW	K140	Supplying and installation of Class SN8 Double Wall Corrugated HDPE pipe outer wall corrugated and inner wall smooth piping system in accordance with IS 16098 part 2 and conveying to work site and lowering into trenches, laying true to line and level and perfect linking at joints with the help of two "O" rings and a coupler of suitable size, including loading and unloading at both destination and cutting of pipes where ever necessary including jointing with all labor, all lead and lift including encasing the pipe around to a depth of not less than 15 cm with screened soft soil available from the excavated soil. The testing commissioning including necessary hydraulic test to the required pressure as per ISS shall be done the contractor shall have to make his own arrangement for procuring water for testing				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
14.1	NEW	K140A	100 ID COUPLER - fitting for 100 mm dia pipes	NOS	0.00	123.24	NIL
14.2	NEW	K140B	135 ID COUPLER - fitting for 135 mm dia pipes	NOS	0.00	182.46	NIL
14.3	NEW	K140C	150 ID COUPLER - fitting for 150 mm dia pipes	NOS	0.00	208.70	NIL
14.4	NEW	K140D	170 ID COUPLER - fitting for 170 mm dia pipes	NOS	0.00	234.14	NIL
14.5	NEW	K140E	200 ID COUPLER - fitting for 200 mm dia pipes	NOS	0.00	421.61	NIL
14.6	NEW	K140F	250 ID COUPLER - fitting for 250 mm dia pipes	NOS	0.00	582.00	NIL
14.7	NEW	K140G	300 ID COUPLER - fitting for 300 mm dia pipes	NOS	0.00	672.95	NIL
14.8	NEW	K140H	400 ID COUPLER - fitting for 400 mm dia pipes	NOS	0.00	819.67	NIL
14.9	NEW	K140I	500 ID COUPLER - fitting for 500 mm dia pipes	NOS	0.00	966.38	NIL
14.10	NEW	K140J	600 ID COUPLER - fitting for 600 mm dia pipes	NOS	0.00	1126.97	NIL
14.11	NEW	K140K	800 ID COUPLER - fitting for 800 mm dia pipes	NOS	0.00	1651.31	NIL
14.12	NEW	K140L	1000 ID COUPLER - fitting for 1000 mm dia pipes	NOS	0.00	2168.74	NIL
14.13	NEW	K140M	100 ID TEE - fitting for 100 mm dia pipes	NOS	0.00	448.06	NIL
14.14	NEW	K140N	135 ID TEE - fitting for 135 mm dia pipes	NOS	0.00	640.35	NIL
14.15	NEW	K140O	150 ID TEE - fitting for 150 mm dia pipes	NOS	0.00	754.55	NIL
14.16	NEW	K140P	170 ID TEE - fitting for 170 mm dia pipes	NOS	0.00	971.17	NIL
14.17	NEW	K140Q	200 ID TEE - fitting for 200 mm dia pipes	NOS	0.00	1643.32	NIL
14.18	NEW	K140R	250 ID TEE - fitting for 250 mm dia pipes	NOS	0.00	2200.71	NIL
14.19	NEW	K140S	300 ID TEE - fitting for 300 mm dia pipes	NOS	0.00	2617.60	NIL
14.20	NEW	K140T	100 ID BEND - fitting for 100 mm dia pipes	NOS	0.00	548.93	NIL
14.21	NEW	K140U	135 ID BEND - fitting for 135 mm dia pipes	NOS	0.00	870.47	NIL
14.22	NEW	K140V	150 ID BEND - fitting for 150 mm dia pipes	NOS	0.00	1178.66	NIL
14.23	NEW	K140W	170 ID BEND - fitting for 170 mm dia pipes	NOS	0.00	1729.86	NIL
14.24	NEW	K140X	200 ID BEND - fitting for 200 mm dia pipes	NOS	0.00	2925.78	NIL
14.25	NEW	K140Y	250 ID BEND - fitting for 250 mm dia pipes	NOS	0.00	3924.66	NIL
14.26	NEW	K140Z	300 ID BEND - fitting for 300 mm dia pipes	NOS	0.00	4441.30	NIL

CHAPTER - 13

PRE-STRESSED CONCRETE PIPE WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	11.1.1	L010	Manufacturing of the prestressed concrete pipes as per ISS 784-2001 and ISS 1343-1980 using all the required materials such as cement, sieved sand, trap or basalt jelly with all lead and lift including cost and conveyance of all materials for manufacture of pipes and supply, carefully rolling, lowering into trenches, laying true to line and correct position, linking, perfect jointing using rubber ring etc. suitable for confined joints including testing and commissioning with all lead and lifts for conveyance of pipes etc. complete, giving satisfactory hydraulic test on line to required pressure as per relevant ISS, including bailing out of water wherever necessary etc. complete as per IS:784. Pipes are to be as per the design. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing) etc. for:				
1.1	11.1.1.1	L010A	PSC pipes for test pressure of 12 kg/cm ² and 375 mm inner dia pipes	RMT	2210.98	2523.20	14.12
1.2	11.1.1.2	L010B	PSC pipes for test pressure of 12 kg/cm ² and 400 mm inner dia pipes	RMT	2307.24	2677.94	16.07
1.3	11.1.1.3	L010C	PSC pipes for test pressure of 12 kg/cm ² and 450 mm inner dia pipes	RMT	2416.70	2783.92	15.20
1.4	11.1.1.4	L010D	PSC pipes for test pressure of 12 kg/cm ² and 500 mm inner dia pipes	RMT	2812.09	3347.00	19.02
1.5	11.1.1.5	L010E	PSC pipes for test pressure of 12 kg/cm ² and 600 mm inner dia pipes	RMT	3163.13	3619.80	14.44
1.6	11.1.1.6	L010F	PSC pipes for test pressure of 12 kg/cm ² and 700 mm inner dia pipes	RMT	3861.43	4483.71	16.12
1.7	11.1.1.7	L010G	PSC pipes for test pressure of 12 kg/cm ² and 750 mm inner dia pipes	RMT	4154.91	4733.45	13.92
1.8	11.1.1.8	L010H	PSC pipes for test pressure of 12 kg/cm ² and 800 mm inner dia pipes	RMT	4356.85	4997.18	14.70
1.9	11.1.1.9	L010I	PSC pipes for test pressure of 12 kg/cm ² and 900 mm inner dia pipes	RMT	4925.88	5672.46	15.16
1.10	11.1.1.10	L010J	PSC pipes for test pressure of 12 kg/cm ² and 1000 mm inner dia pipes	RMT	5869.53	6817.48	16.15
1.11	11.1.1.11	L010K	PSC pipes for test pressure of 12 kg/cm ² and 1100 mm inner dia pipes	RMT	6528.20	7482.29	14.61

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.12	11.1.1.12	L010L	PSC pipes for test presure of 12 kg/cm2 and 1200 mm inner dia pipes	RMT	7294.45	8287.45	13.61
2.	11.1.2.	L020	Manufacturing of the prestressed concrete pipes as per ISS 784-2001 and ISS 1343-1980 using all the required materials such as cement, seived sand, trap or basalt jelly with all lead and lift including cost and conveyance of all materials for manufacture of pipes and supply, carefully rolling, lowering into trenches, laying true to line and correct position, linking, perfect jointing using rubber ring etc. suitable for confined joints including testing and commissioning with all lead and lifts for conveyance of pipes etc. complete, giving satisfactory hydraulic test on line to required pressure as per relevant ISS, including bailing out of water wherever necessary etc. complete as per IS:784. Pipes are to be as per the design. The rates are inclusive of all taxes and duties. (Contractor will make his own arrangements for procuring water for testing) etc. for:				
2.1	11.1.2.1	L020A	PSC pipes for test presure of 18 kg/cm2 and 375 mm inner dia pipes	RMT	2240.24	2515.34	12.28
2.2	11.1.2.2	L020B	PSC pipes for test presure of 18 kg/cm2 and 400 mm inner dia pipes	RMT	2327.05	2675.70	14.98
2.3	11.1.2.3	L020C	PSC pipes for test presure of 18 kg/cm2 and 450 mm inner dia pipes	RMT	2478.98	2838.89	14.52
2.4	11.1.2.4	L020D	PSC pipes for test presure of 18 kg/cm2 and 500 mm inner dia pipes	RMT	2848.89	3212.36	12.76
2.5	11.1.2.5	L020E	PSC pipes for test presure of 18 kg/cm2 and 600 mm inner dia pipes	RMT	3250.89	3709.56	14.11
2.6	11.1.2.6	L020F	PSC pipes for test presure of 18 kg/cm2 and 700 mm inner dia pipes	RMT	4012.42	4629.57	15.38
2.7	11.1.2.7	L020G	PSC pipes for test presure of 18 kg/cm2 and 750 mm inner dia pipes	RMT	4336.09	4946.63	14.08
2.8	11.1.2.8	L020H	PSC pipes for test presure of 18 kg/cm2 and 800 mm inner dia pipes	RMT	4548.41	5244.02	15.29
2.9	11.1.2.9	L020I	PSC pipes for test presure of 18 kg/cm2 and 900 mm inner dia pipes	RMT	5098.57	5784.66	13.46
2.10	11.1.2.10	L020J	PSC pipes for test presure of 18 kg/cm2 and 1000 mm inner dia pipes	RMT	6155.46	7097.98	15.31
2.11	11.1.2.11	L020K	PSC pipes for test presure of 18 kg/cm2 and 1100 mm inner dia pipes	RMT	6922.65	7975.97	15.22
2.12	11.1.2.12	L020L	PSC pipes for test presure of 18 kg/cm2 and 1200 mm inner dia pipes	RMT	7718.15	8904.55	15.37

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.	11.2	L030	Carefully conveying, rolling with all lead and lifts PSC pipes of all classes lowering into trenches, laying true to line and correct position, linking, perfect jointing using rubber rings etc. suitable for all types of joints, including testing and commissioning etc. complete and giving satisfactory hydraulic test on the line to the required pressure as per relevant ISS including bailing out water wherever necessary etc. complete. Rubber rings will be issued free of cost at divisional or sub-divisional stores. The contractor will make his own arrangements for procuring water for testing pressure).				
3.1	11.2.1	L030A	For 375 mm dia (inner) of PSC pipes	RMT	177.41	77.24	-56.46
3.2	11.2.2	L030B	For 400 mm dia (inner) of PSC pipes	RMT	183.07	91.73	-49.89
3.3	11.2.3	L030C	For 450 mm dia (inner) of PSC pipes	RMT	192.51	112.43	-41.60
3.4	11.2.4	L030D	For 500 mm dia (inner) of PSC pipes	RMT	202.89	138.08	-31.94
3.5	11.2.5	L030E	For 600 mm dia (inner) of PSC pipes	RMT	256.67	164.04	-36.09
3.6	11.2.6	L030F	For 700 mm dia (inner) of PSC pipes	RMT	277.43	242.55	-12.57
3.7	11.2.7	L030G	For 750 mm dia (inner) of PSC pipes	RMT	301.97	288.53	-4.45
3.8	11.2.8	L030H	For 800 mm dia (inner) of PSC pipes	RMT	312.35	340.88	9.13
3.9	11.2.9	L030I	For 900 mm dia (inner) of PSC pipes	RMT	374.63	376.62	0.53
3.10	11.2.10	L030J	For 1000 mm dia (inner) of PSC pipes	RMT	452.01	455.74	0.83
3.11	11.2.11	L030K	For 1100 mm dia (inner) of PSC pipes	RMT	498.25	492.23	-1.21
3.12	11.2.12	L030L	For 1200 mm dia (inner) of PSC pipes	RMT	545.43	534.43	-2.02

CHAPTER - 14

PVC PIPE WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	12.1	M010	Supplying PVC ring tight pipes conforming to IS 4985:2000 with latest amendments and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading unloading at both destinations and cuts of pipes wherever necessary including jointing of PVC pipes and specials (excluding cost of specials) with jointing of approved type, with all labour with all lead & lift including encasing the pipe around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (Contractor will make his own arrangements for procuring water for testing) etc. for:				
1.1	12.1.1	M010A	PVC pipes 25 mm outer dia., 10 kg/sqcm & class 5	RMT	32.93	45	37.14
1.2	12.1.2	M010B	PVC pipes 32 mm outer dia., 10 kg/sqcm & class 5	RMT	50.61	70	38.53
1.3	12.1.3	M010C	PVC pipes 50 mm outer dia., 6 kg/sqcm & class 5	RMT	76.02	107	40.50
1.4	12.1.4	M010D	PVC pipes 63 mm outer dia., 6 kg/sqcm & class 3	RMT	84.20	122	45.10
1.5	12.1.5	M010E	PVC pipes 75 mm outer dia., 6 kg/sqcm & class 3	RMT	117.64	169	43.52
1.6	12.1.6	M010F	PVC pipes 90 mm outer dia., 6 kg/sqcm & class 3	RMT	161.22	222	37.68
1.7	12.1.7	M010G	PVC pipes 110 mm outer dia., 6 kg/sqcm & class 3	RMT	232.76	304	30.58
1.8	12.1.8	M010H	PVC pipes 140 mm outer dia., 6 kg/sqcm & class 3	RMT	366.41	467	27.58
1.9	12.1.9	M010I	PVC pipes 160 mm outer dia., 6 kg/sqcm & class 3	RMT	459.21	582	26.84
1.10	12.1.10	M010J	PVC pipes 200 mm outer dia., 6 kg/sqcm & class 3	RMT	702.22	867	23.44
1.11	12.1.11	M010K	PVC pipes 250 mm outer dia., 6 kg/sqcm & class 3	RMT	1109.96	1353	21.92
1.12	12.1.12	M010L	PVC pipes 315 mm outer dia., 6 kg/sqcm & class 3	RMT	2528.93	3018	19.35
2.	NEW	M020	Supplying UNPLASTICISED PVC pipes conforming to IS 16098:2013 with latest amendments ended with integral sockets with ISI mark and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type, with all labour, lead				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			& lifts, including encasing the pipes around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) etc. for:				
2.1	NEW	M020A	Pipes of SN 4, 75 mm dia.	RMT	0.00	214	NIL
2.2	NEW	M020B	Pipes of SN4, 110 mm dia.	RMT	0.00	284	NIL
2.3	NEW	M020C	For pipes SN4, 125 mm dia.	RMT	0.00	400	NIL
2.4	NEW	M020D	Pipes of SN4, 160 mm dia.	RMT	0.00	628	NIL
2.5	NEW	M020E	Pipes of SN4, 200 mm dia.	RMT	0.00	912	NIL
2.6	NEW	M020F	Pipes of SN4, 250 mm dia.	RMT	0.00	1421	NIL
2.7	NEW	M020G	Pipes of SN4, 315 mm dia.	RMT	0.00	2215	NIL
2.8	NEW	M020J	Pipes of SN 8, 110 mm dia.	RMT	0.00	362	NIL
2.9	NEW	M020K	Pipes of SN 8, 125 mm dia.	RMT	0.00	452	NIL
2.10	NEW	M020L	Pipes of SN 8, 160 mm dia.	RMT	0.00	713	NIL
2.11	NEW	M020M	Pipes of SN 8, 200 mm dia.	RMT	0.00	1080	NIL
2.12	NEW	M020N	Pipes of SN 8, 250 mm dia.	RMT	0.00	1645	NIL
2.13	NEW	M020O	Pipes of SN 8, 315 mm dia.	RMT	0.00	2608	NIL
3.	NEW	M030	Supplying DOUBLE WALL CORRUGATED (External annul corrugated & smooth internal wall) (DWC) of class SN 8, piping system in accordance with IS 16098 (Part-2) and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing with all labour, lead & lifts, including encasing the pipes around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) etc. for:				
3.1	NEW	M030A	Pipes of SN 8, 100 mm dia.	RMT	0.00	357	NIL
3.2	NEW	M030B	Pipes of SN 8, 135 mm dia.	RMT	0.00	475	NIL
3.3	NEW	M030C	Pipes of SN 8, 150 mm dia.	RMT	0.00	600	NIL
3.4	NEW	M030D	Pipes of SN 8, 170 mm dia.	RMT	0.00	690	NIL
3.5	NEW	M030E	Pipes of SN 8, 200 mm dia.	RMT	0.00	800	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.6	NEW	M030F	Pipes of SN 8, 250 mm dia.	RMT	0.00	1110	NIL
3.7	NEW	M030G	Pipes of SN 8, 300 mm dia.	RMT	0.00	1319	NIL
3.8	NEW	M030H	Pipes of SN 8, 400 mm dia.	RMT	0.00	1585	NIL
3.9	NEW	M030I	Pipes of SN 8, 500 mm dia.	RMT	0.00	4576	NIL
3.10	NEW	M030J	Pipes of SN 8, 600 mm dia.	RMT	0.00	6913	NIL
3.11	NEW	M030K	Pipes of SN 8, 800 mm dia.	RMT	0.00	11454	NIL
3.12	NEW	M030L	Pipes of SN 8, 1000 mm dia.	RMT	0.00	18133	NIL
4.	NEW	M040	Supplying UPVC FOAM CORE pipes conforming to IS 16098 P-1 2013 with latest amendments ended with integral sockets with ISI mark and conveying to worksite, rolling and lowering into trenches, laying true to line and level and perfect linking at joints, testing and commissioning, including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of UPVC pipes (with cost of elastomeric sealing rings) and specials (excluding cost of specials) with jointing of approved type, with all labour, lead & lifts, including encasing the pipes around to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation etc. complete and giving necessary hydraulic test to the required pressure as per ISS (contractor will make his own arrangements for procuring water for testing) etc. for:				
4.1	NEW	M040A	Pipes of SN4 Ring Fit - 160 mm dia.	RMT	0.00	545	NIL
4.2	NEW	M040B	Pipes of SN8 Ring Fit, 160 mm dia.	RMT	0.00	628	NIL
4.3	NEW	M040C	Pipes of SN4 Self Fit - 160 mm dia.	RMT	0.00	554	NIL
4.4	NEW	M040D	Pipes of SN4 Self Fit - 200 mm dia.	RMT	0.00	818	NIL
4.5	NEW	M040E	Pipes of SN4 Self Fit - 250 mm dia.	RMT	0.00	1259	NIL
4.6	NEW	M040F	Pipes of SN4 Self Fit - 315 mm dia.	RMT	0.00	1964	NIL
4.7	NEW	M040G	Pipes of SN8 Self Fit - 160 mm dia.	RMT	0.00	637	NIL
4.8	NEW	M040H	Pipes of SN8 Self Fit - 200 mm dia.	RMT	0.00	963	NIL
4.9	NEW	M040I	Pipes of SN8 Self Fit - 250 mm dia.	RMT	0.00	1443	NIL
4.10	NEW	M040J	Pipes of SN8 Self Fit - 315 mm dia.	RMT	0.00	2303	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.	NEW	M050	Providing, laying, supplying jointing materials, jointing and testing but excluding excavation and back filling etc. for Oriented Poly vinyl chloride Pipes or O-PVC Pipes of highest Orientation Class 500 with homogeneous SPIGOT including supply of Elastomeric sealing ring manufactured as per ISO 16422-2014 and the elastomeric sealing ring gasket conforming to EN 681-1. The manufacturing, testing at factory, supplying, transportation, handling, stacking, installation, jointing and testing at sites shall comply with all applicable standards (ISO 16422-2014) .				
5.1	NEW	M050A	Pipes of 110 mm dia. , PN - 16 & elastomeric fittings	RMT	0.00	1002	NIL
5.2	NEW	M050B	Pipes of 160 mm dia., PN - 16 & elastomeric fittings	RMT	0.00	1403	NIL
5.3	NEW	M050C	Pipes of 200 mm dia., PN - 16 & elastomeric fittings	RMT	0.00	1876	NIL
5.4	NEW	M050D	Pipes of 250 mm dia., PN - 16 & elastomeric fittings	RMT	0.00	2584	NIL
5.5	NEW	M050E	Pipes of 315 mm dia., PN - 16 & elastomeric fittings	RMT	0.00	3445	NIL
5.6	NEW	M050E	Pipes of 400 mm dia., PN - 16 & elastomeric fittings	RMT	0.00	4982	NIL
5.7	NEW	M050G	Pipes of 110 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	1039	NIL
5.8	NEW	M050H	Pipes of 160 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	1532	NIL
5.9	NEW	M050I	Pipes of 200 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	2073	NIL
5.10	NEW	M050J	Pipes of 250 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	2788	NIL
5.11	NEW	M050K	Pipes of 315 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	3647	NIL
5.12	NEW	M050L	Pipes of 400 mm dia. , PN - 25 & elastomeric fittings	RMT	0.00	5459	NIL

CHAPTER - 15

CI / GI PIPES WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	NEW	N005	Providing, Laying and Fixing GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. Earth work excavation in trenches for pipes to be measured and paid for separately (contractor will make his own arrangements for procuring water for testing) for:				
1.1	NEW	N005A	Light Duty GI pipe of 15 mm dia	RMT	89.00	75	-15.19
1.2	NEW	N005B	Light Duty GI pipe of 20 mm dia	RMT	113.00	98	-13.35
1.3	NEW	N005C	Light Duty GI pipe of 25 mm dia	RMT	148.00	183	23.88
1.4	NEW	N005D	Light Duty GI pipe of 32 mm dia	RMT	200.00	223	11.31
1.5	NEW	N005E	Light Duty GI pipe of 40 mm dia	RMT	212.00	281	32.71
1.6	NEW	N005F	Light Duty GI pipe of 50 mm dia	RMT	282.00	349	23.76
1.7	NEW	N005G	Light Duty GI pipe of 65 mm dia	RMT	346.00	476	37.64
1.8	NEW	N005H	Light Duty GI pipe of 80 mm dia	RMT	463.00	558	20.51
1.9	NEW	N005I	Light Duty GI pipe of 100 mm dia	RMT	583.00	782	34.19
2.	NEW	N010	Providing, Laying and Fixing GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. Earth work excavation in trenches for pipes to be measured and paid for separately (contractor will make his own arrangements for procuring water for testing) for:				
2.1	NEW	N010A	Medium Duty GI pipe of 15 mm dia	RMT	95.00	127	33.79
2.2	NEW	N010B	Medium Duty GI pipe of 20 mm dia	RMT	122.00	152	24.41
2.3	NEW	N010C	Medium Duty GI pipe of 25 mm dia	RMT	159.00	214	34.36
2.4	NEW	N010D	Medium Duty GI pipe of 32 mm dia	RMT	218.00	262	20.13
2.5	NEW	N010E	Medium Duty GI pipe of 40 mm dia	RMT	230.00	305	32.57
2.6	NEW	N010F	Medium Duty GI pipe of 50 mm dia	RMT	307.00	415	35.24
2.7	NEW	N010G	Medium Duty GI pipe of 65 mm dia	RMT	375.00	526	40.16
2.8	NEW	N010H	Medium Duty GI pipe of 80 mm dia	RMT	503.00	670	33.23
2.9	NEW	N010I	Medium Duty GI pipe of 100 mm dia	RMT	635.00	954	50.23

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.	NEW	N020	Providing, Laying and Fixing GI pipes conforming to IS 1239:1990 with latest amendments complete with GI fittings (excluding the cost of fittings) with cuts and threads wherever necessary, including testing for water tightness, with all lead and commissioning. Earth work excavation in trenches for pipes to be measured and paid for separately (contractor will make his own arrangements for procuring water for testing) for:				
3.1	NEW	N020A	Heavy Duty GI pipe of 15 mm dia	RMT	103.00	144	39.74
3.2	NEW	N020B	Heavy Duty GI pipe of 20 mm dia	RMT	134.00	173	29.18
3.3	NEW	N020C	Heavy Duty GI pipe of 25 mm dia	RMT	173.00	250	44.24
3.4	NEW	N020D	Heavy Duty GI pipe of 32 mm dia	RMT	235.00	309	31.49
3.5	NEW	N020E	Laying of GI pipe Heavy-duty 40 mm dia	RMT	247.00	360	45.70
3.6	NEW	N020F	Heavy Duty GI pipe of 50 mm dia	RMT	334.00	496	48.49
3.7	NEW	N020G	Heavy Duty GI pipe of 65 mm dia	RMT	410.00	632	54.19
3.8	NEW	N020H	Heavy Duty GI pipe of 80 mm dia	RMT	550.00	779	41.63
3.9	NEW	N020I	Heavy Duty GI pipe of 100 mm dia	RMT	699.00	1112	59.11
4.	NEW	N030	Providing and fixing GI union in existing GI pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required etc. for:				
4.1	NEW	N030A	15 mm nominal bore	NOS	253.00	268	6.10
4.2	NEW	N030B	20.88.2: 20 mm nominal bore	NOS	274.00	289	5.34
4.3	NEW	N030C	20.88.3: 25 mm nominal bore	NOS	285.00	299	4.82
4.4	NEW	N030D	20.88.4: 32 mm nominal bore	NOS	303.00	317	4.51
4.5	NEW	N030E	20.88.5: 40 mm nominal bore	NOS	342.00	354	3.42
4.6	NEW	N030F	20.88.6: 50 mm nominal bore	NOS	481.00	496	3.12
4.7	NEW	N030G	20.88.7: 65 mm nominal bore	NOS	672.00	680	1.19
4.8	NEW	N030H	20.88.8: 80 mm nominal bore	NOS	760.00	765	0.70
5.	NEW	N040	Providing and Laying in trenches S&S centrifugally cast (spun) iron socket and spigot pipes of Class LA and conforming to IS 1536 with latest amendments. (Earth work in trenches and jointing of pipes to be measured and paid for separately) for:				
5.1	NEW	N040A	80 mm dia pipe	RMT	1202.00	1138	-5.31
5.2	NEW	N040B	100 mm dia pipe	RMT	1207.00	1142	-5.36
5.3	NEW	N040C	150 mm dia pipe	RMT	1802.00	1706	-5.35
5.4	NEW	N040D	200 mm dia pipe	RMT	3029.00	2892	-4.51
5.5	NEW	N040E	250 mm dia pipe	RMT	3943.00	3766	-4.48
5.6	NEW	N040F	300 mm dia pipe	RMT	5310.00	5077	-4.38

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.7	NEW	N040G	350 mm dia pipe	RMT	6359.00	6078	-4.43
5.8	NEW	N040H	400 mm dia pipe	RMT	8372.00	8012	-4.31
5.9	NEW	N040I	450 mm dia pipe	RMT	10136.00	9701	-4.29
5.10	NEW	N040J	500 mm dia pipe	RMT	11777.00	11267	-4.33
5.11	NEW	N040K	600 mm dia pipe	RMT	16444.00	15746	-4.25
6.	NEW	N050	Laying in trenches S&S centrifugally cast (spun) iron socket and spigot pipes all classes and conforming to IS 1536 with latest amendments including conveying from sectional stores to site, rolling and lowering to trenches, laying true to line level and perfect linking at joints, loading & unloading at both destination and with an initial lead of 5.0 K.M. (Earth work in trenches and jointing of pipes to be measured and paid for separately) for :				
6.1	NEW	N050A	80 mm dia pipe	RMT	39.00	20	-49.74
6.2	NEW	N050B	Laying of CI 100 mm dia pipe	RMT	44.00	24	-46.27
6.3	NEW	N050C	Laying of CI 150 mm dia pipe	RMT	58.00	28	-52.28
6.4	NEW	N050D	Laying of CI 200 mm dia pipe	RMT	56.00	33	-40.27
6.5	NEW	N050E	Laying of CI 250 mm dia pipe	RMT	66.00	37	-43.20
6.6	NEW	N050F	Laying of CI 300 mm dia pipe	RMT	76.00	43	-43.08
6.7	NEW	N050G	Laying of CI 350 mm dia pipe	RMT	91.00	49	-46.12
6.8	NEW	N050H	Laying of CI 400 mm dia pipe	RMT	102.00	57	-44.56
6.9	NEW	N050I	Laying of CI 450 mm dia pipe	RMT	121.00	68	-43.49
6.10	NEW	N050J	Laying of CI 500 mm dia pipe	RMT	146.00	80	-45.06
6.11	NEW	N050K	Laying of CI 600 mm dia pipe	RMT	169.00	92	-45.72
6.12	NEW	N050L	Laying of CI 700 mm dia pipe	RMT	230.00	167	-27.25
6.13	NEW	N050M	Laying of CI 750 mm dia pipe	RMT	285.00	205	-27.94
6.14	NEW	N050N	Laying of CI 900 mm dia pipe	RMT	426.00	276	-35.13
7.	NEW	N060	Providing and Laying in trenches CAST IRON pipes of Class B excluding the earth work in trenches and jointing of pipes which are to be measured and paid for separately for:				
7.1	NEW	N060A	80 mm dia pipe	RMT	540.00	501	-7.17
7.2	NEW	N060B	100 mm dia pipe	RMT	575.00	535	-6.97
7.3	NEW	N060C	150 mm dia pipe	RMT	820.00	771	-5.99
7.4	NEW	N060D	200 mm dia pipe	RMT	1171.00	1109	-5.33
7.5	NEW	N060E	250 mm dia pipe	RMT	1570.00	1492	-4.97
7.6	NEW	N060F	300 mm dia pipe	RMT	2024.00	1929	-4.70
7.7	NEW	N060G	350 mm dia pipe	RMT	2524.00	2410	-4.51
7.8	NEW	N060H	400 mm dia pipe	RMT	3074.00	2939	-4.40

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.9	NEW	N060I	450 mm dia pipe	RMT	3721.00	3562	-4.29
7.10	NEW	N060J	500 mm dia pipe	RMT	4412.00	4226	-4.21
7.11	NEW	N060K	600 mm dia pipe	RMT	5887.00	5644	-4.13
7.12	NEW	N060L	700 mm dia pipe	RMT	7865.00	7546	-4.05
7.13	NEW	N060M	750 mm dia pipe	RMT	8846.00	8491	-4.01
7.14	NEW	N060N	900 mm dia pipe	RMT	12022.00	11545	-3.96
8.	NEW	N070	Providing lead caulked joints to spun iron or CI pipes and specials with spun yarn and lead, including caulking and giving satisfactory hydraulic test corresponding to the required pressure etc. and excluding the cost of pig lead for:				
8.1	NEW	N070A	Spun / CI / DI pipes 80 mm	NOS	167.00	177	5.77
8.2	NEW	N070B	Spun / CI / DI pipes 100 mm	NOS	171.00	181	5.58
8.3	NEW	N070C	Spun / CI / DI pipes 150 mm	NOS	254.00	270	6.29
8.4	NEW	N070D	Spun / CI / DI pipes 200 mm	NOS	341.00	359	5.25
8.5	NEW	N070E	Spun / CI / DI pipes 250 mm	NOS	455.00	465	2.15
8.6	NEW	N070F	Spun / CI / DI pipes 300 mm	NOS	525.00	552	5.18
8.7	NEW	N070G	Spun / CI / DI pipes 350 mm	NOS	626.00	659	5.31
8.8	NEW	N070H	Spun / CI / DI pipes 400 mm	NOS	751.00	788	4.93
8.9	NEW	N070I	Spun / CI / DI pipes 450 mm	NOS	864.00	907	4.93
8.10	NEW	N070J	Spun / CI / DI pipes 500 mm	NOS	941.00	987	4.86
8.11	NEW	N070K	Spun / CI / DI pipes 600 mm	NOS	1209.00	1270	5.08
8.12	NEW	N070L	Spun / CI / DI pipes 700 mm	NOS	1404.00	1475	5.05
8.13	NEW	N070M	Spun / CI / DI pipes 750 mm	NOS	1708.00	1787	4.61
8.14	NEW	N070N	Spun / CI / DI pipes 900 mm	NOS	2139.00	2229	4.22
9.	NEW	N080A	Providing and laying S&S CI standard specials such as tees, bends, collars tappers and caps etc. suitable for flanged jointing as per IS codes for pipes upto 300 mm dia.	KGS	174.00	177	1.78
10.	NEW	N080B	Providing and laying S&S CI standard specials such as tees, bends, collars tappers and caps etc. suitable for flanged jointing as per IS codes for pipes above 300 mm dia.	KGS	180.00	183	1.50
11.	NEW	N080C	Providing and laying S&S CI standard specials such as tees, bends, collars tappers and caps etc. suitable for mechanical jointing as per IS codes for pipes upto 300 mm dia.	KGS	192.00	194	1.00
12.	NEW	N080D	Providing and laying S&S CI standard specials such as tees, bends, collars tappers and caps etc. suitable for mechanical jointing as per IS codes for pipes above 300 mm dia.	KGS	197.00	200	1.28

CHAPTER - 16

BORE WELLS AND HAND PUMPS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% increas. / decres.
1.	13.1.1	O010	Sinking borewell of 165 mm dia. clear, using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF and above, in all strata of earth, including over burden upto 20M, fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges, cost of consumables, cost of yield test at the final depth with a minimum working of compressor for one hour etc. complete. The cost excludes the cost of casing pipes, collars and caps etc.) for:				
1.1	13.1.1.1	O010A	Borewell depth of 0 to 50 Mtrs per RMT	RMT	275.00	247.70	-9.93
1.2	13.1.1.2	O010B	Borewell depth of 50 to 100 Mtrs per RMT	RMT	344.00	310.12	-9.85
1.3	13.1.1.3	O010C	Borewell depth of 100 to 150 Mtrs per RMT	RMT	401.00	360.83	-10.02
1.4	13.1.1.4	O010D	Borewell depth of 150 to 200 Mtrs per RMT	RMT	458.00	411.54	-10.14
1.5	13.1.1.5	O010E	Borewell depth of 200 to 250 Mtrs per RMT	RMT	492.00	442.74	-10.01
1.6	13.1.1.6	O010F	Borewell depth of 250 to 300 Mtrs per RMT	RMT	515.00	464.20	-9.86
1.7	13.1.1.7	O010G	Borewell depth above 300 Mtrs per RMT	RMT	527.00	473.95	-10.07
2.	13.2.2	O020	Sinking borewell of 150 mm dia. clear, using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF and above, in all strata of earth, including over burden upto 20M, fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and supporting vehicles, crew charges, cost of consumables, cost of yield test at the final depth with a minimum working of compressor for one hour etc. complete. The cost excludes the cost of casing pipes, collars and caps etc.) for:				
2.1	13.2.2.1	O020A	Borewell depth of 0 to 50 Mtrs per RMT	RMT	258.00	232.10	-10.04
2.2	13.2.2.2	O020B	Borewell depth of 50 to 100 Mtrs per RMT	RMT	332.00	298.41	-10.12
2.3	13.2.2.3	O020C	Borewell depth of 100 to 150 Mtrs per RMT	RMT	389.00	351.07	-9.75
2.4	13.2.2.4	O020D	Borewell depth of 150 to 200 Mtrs per RMT	RMT	430.00	386.18	-10.19
2.5	13.2.2.5	O020E	Borewell depth of 200 to 250 Mtrs per RMT	RMT	458.00	413.49	-9.72
2.6	13.2.2.6	O020F	Borewell depth of 250 to 300 Mtrs per RMT	RMT	464.00	417.39	-10.05
2.7	13.2.2.7	O020G	Borewell depth above 300 Mtrs per RMT	RMT	0.00	448.60	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incres. / decres.
3.	13.3	O030A	Positioning of the rig for retrieval of failed borewells, raising mast and aligning the hammer and drill rods moounded on the rotary head of the rig concentric with borewell of 140-149 mm dia. to be retrived (wherever further geo-physical investigation has revealed that the existing aquifer / aquifers have not been tapped to the full depth) including selection of the suitable bit for deepening etc. The cost is for the work of each bore well.	NOS	2059.00	2058.87	-0.01
4.	13.4	O040A	Geophysical investigation at site for sinking borewells for supplying drinking water to the habitation either through the Hand Pump MWS or P.W.S.S, by vertical electrical sounding by adopting Venner or Schlumbergers's method, including reconnaissance survey of geological formation. Geophysical investigation of existing ground water in the vicinity, its quality, quantity and acceptability of the users, indicating the location of the site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 metre in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instruments and accessories to work site, engaging technical personal and labour required etc. NOTE: 1) Additional rate on item 1&2 is allowed for drilling in over burden and fixing Casing pipes beyond 20 M (for fixing Casing pipes only) a) Above 20 M and upto 30 M - 15%, b) Above 30 M - 30% (Measurement of overburden is restricted to the depth of casing pipe fixed excluding initial depth of 20M and projection above ground level). 2) A sum of Rs. 100/- is to be deducted for Dry Borewell towards yield test.	NOS	1716.00	1716.66	0.04
5.	13.5	O050A	Cleaning of borewells including yield testing of borewell either using slow or fast rigs for not more than 2 hours at the final depth with a minimum working of 2 hours continuously with air compressor or suitable pump as per specification, including the cost of transportation charges, crew charges, cost of consumables etc. complete	NOS	10868.00	10868.81	0.01
6.	13.6	O060A	Re-drilling of filled-up borewell, including yield test at final depth.	RMT	229.00	228.89	-0.05

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
7.	13.7	O070A	Logging / scanning of borewell at any depth continuously with the help of Logger unit including the cost of transportation charges, crew charges, stationery charges and cost of consumables etc.	NOS	0.00	1372.21	NIL
8.	13.8	O080A	Hydrofracturing of 146 to 152 mm dia. borewell by using hydrofracturing unit using single packer with minimum of two fractures including transportation of unit, supporting vehicles, crew charges, cost of consumables and yield testing of borewell one hour at once before fracturing and the other after fracturing. The work to be within a radius of 50 kms from taluk head quarters and including supplying necessary water for fracturing etc. complete.	NOS	11440.00	11439.91	0.00
9.	13.9	O090A	Yield testing of borewells at final depth with a minimum of 10 hours continuously with the help of pump testing unit including the cost of transportation charges, crew charges and cost of consumables.	SQM	7436.00	7437.18	0.02
10.	13.1	O100A	Providing and construction of platform in CC 1:2:4 proportion using hard granite or basalt or trap jelly of 20 mm and down size for India Mark-II hand pump as per approved drawing enclosed to the S.R (UNICEF standard), including machine mixing, laying, tamping, curing and smooth finishing of exposed faces in CM 1:3 with necessary moulds, including earth work excavation with all leads of materials etc. complete	NOS	3661.00	3293.46	-10.04
11.	13.11	O110A	Providing and construction of platform in M15 Cement Concrete using hard granite or basalt or trap jelly of 20 mm and down size for India Mark-III (VLOM) hand pump as per approved drawing enclosed to the S.R according to IS 13056 - 1991 (UNICEF standard), including machine mixing, laying, tamping, curing and smooth finishing of exposed faces in CM 1:3 with necessary moulds, including earth work excavation with all leads of materials etc. complete	NOS	5491.00	4753.68	-13.43
12.	13.12	O120A	Erecting and commissioning of new hand pump including fixing of GI pipes, fixing of hand pump to the borewell and giving satisfactory test etc. complete.	NOS	458.00	412.90	-9.85

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
13.	13.13	O120B	Erecting and commissioning of new hand pump India Mark III (VL0M), including fixing of GI pipes, fixing of hand pump to the borewell and giving satisfactory test etc. complete.	NOS	572.00	516.12	-9.77
14.	13.14	O130A	Repair Top Head Assembly of Hand Pumps by removing the top head assembly, replacing the wornout parts such as handle, axle, chain bearings. Reassembling after greasing in position and giving satisfactory test. etc. complete excluding the cost of parts required for replacement.	NOS	263.00	236.00	-10.27
15.	13.15	O130B	Dismantling India Mark III hand pump from position, releasing plunger rods, valves, piston. Overhauling the components, replace the wornout parts and re-erecting in position etc. with cutting, threading wherever necessary, adjusting the rod and giving satisfactory test etc. The replaced materials to be returned to the departmental store. The cost exclude the cost of parts required for replacement)	NOS	264.00	237.13	-10.18
16.	13.16	O130C	Dismantling India Mark III hand pump from position, releasing GI pipes, rods, pump, cylinder and strainer. Overhauling the components, replace the wornout parts and re-erecting in position etc. with cutting, threading wherever necessary, adjusting the rod and giving satisfactory test etc. The replaced materials to be returned to the departmental store. The cost exclude the cost of parts required for replacement)	NOS	487.00	438.20	-10.02
17.	13.17	O130D	Providing and greasing the chain of hand pump (both India Mark-II and India Mark-III) by removing the top head cover, cleaning water tank and head assembly, removing all dirt inside and outside the hand pump body and refixing the top head cover by fixing the bolts and nuts including replacing the bolts and nuts with new ones wherever necessary etc. complete (excluding the cost of spares).	NOS	58.00	58.58	1.00
18.	13.18	O130E	Labour charges for repairing of existing hand pump (both India Mark II and India Makr III) above the ground level including replacing of worn out parts such as top head, inspection cover, handle, handle axis, handle bearing, chain with coupling water tank and extension or raiser pipe with plunger rod as may be required including re-assembling the pump in position and giving satisfactory water discharge test and returning of released materials to the stores etc. complete excluding the cost of spares.	NOS	160.00	160.52	0.33

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
19.	13.19	O130F	Labour charges for repairing of existing hand pump (both India Mark II and India Makr III) below the ground level after dismantling the hand pump head assembly, water tank riser assembly, plunger rods, pump cylinder, replacing of worn out parts in the pumpset cylinder, including overhauling of cylinder, cutting the GI pipes and rods and threading the same, re-assembling the pump including greasing and giving satisfactory water discharge test and returning of released materials to the stores etc. complete excluding the cost of spares.	NOS	435.00	436.51	0.35
20.	13.20.	O130G	Scraping of old paints, stains etc. and provide painting with anti-corrosive pint over a cost primer etc. with approved brand of paint and primer etc. including the cost of all materials, labour, transportation and numbering etc. as directed by the departmental officials.	NOS	201.00	181.36	-9.77
21.	13.21	O140A	Dismantling of hand pump from position, releasing of GI pipes, plunger rods, pump cylinder and strainer and returning the released items to departmental stores.	NOS	172.00	173.04	0.60
22.	13.22	O140B	Dismantling the existing platform of hand pumps of all types and remove the debris as directed.	NOS	115.00	114.99	-0.01
23.	13.23	O140C	Fishing out power pump from the borewell including the cost of labour, materials, with all lead and lifts etc. complete.	NOS	4805.00	4804.94	0.00
24.	NEW	O150A	Labour charges for Lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m)). for 50 mm	JOB	0.00	113.20	NIL
25.	NEW	O150B	Labour charges for Lifting of non functioning submersible pump set along with cable and GI pipes (Each length = 6m)). for 32 mm	JOB	0.00	92.30	NIL
26.	NEW	O150C	Lifting of struck up submersible pump set. Upto 300 ft	JOB	0.00	4812.17	NIL
27.	NEW	O150D	Lifting of struck up submersible pump set. Above 300 ft	JOB	0.00	9357.73	NIL
28.	NEW	O150E	Labour charges for Erection of new / repaired submersible pump set along with GI pipes (32 mm / 50 mm), cable (New submersible pump set if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (Each length = 6 m)	JOB	0.00	92.30	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
29.	NEW	O150F	Labour charges for lowering additional GI pipes of dia 32 / 50 mm dia including transportation charges (New GI pipe required will be supplied by the department free of cost & released GI pipes should be handed over to the department (Labour charges only). Upto 3 mtr lengths	JOB	0.00	1012.25	NIL
30.	NEW	O150G	Labour charges for lowering additional GI pipes of dia 32 / 50 mm dia including transportation charges (New GI pipe required will be supplied by the department free of cost & released GI pipes should be handed over to the department (Labour charges only). Above 3 mtr lengths	JOB	0.00	337.78	NIL
31.	NEW	O150H	Repair of existing energized Borewell outdoor MS panel board by welding the damaged broken panel board doors body sheet, angle iron, frame door hinges, cement concrete to panel board legs, embossing (letters & RR No.) etc., complete	JOB	0.00	1041.36	NIL

CHAPTER - 17
REPAIRS TO SUBMERSIBLE PUMPSETS
AND REPLACEMENT OF PARTS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	14.A	P010	Rewinding of submersible pumpset with finolex winding wires of appropriate Gauge, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submersible pumpsets etc. for				
1.1	14.A.1	P010A	For all types of submersible pumpsets upto 3.0 H.P.	NOS	2745.00	2883.54	5.05
1.2	14.A.2	P010B	For all types of submersible pumpsets above 3 HP and upto 5.0 H.P.	NOS	2974.00	3122.53	4.99
1.3	14.A.3	P010C	For all types of submersible pumpsets above 5.0 HP and upto 5.5H.P.	NOS	0.00	3315.51	NIL
1.4	14.A.3	P010D	For all types of submersible pumpsets above 5.5 HP and upto 6.0H.P.	NOS	0.00	3507.37	NIL
1.5	14.A.3	P010E	For all types of submersible pumpsets above 6.0 HP and upto 6.5H.P.	NOS	0.00	3702.60	NIL
1.6	14.A.3	P010F	For all types of submersible pumpsets above 6.5 HP and upto 7.0H.P.	NOS	0.00	3893.34	NIL
1.7	14.A.3	P010G	For all types of submersible pumpsets above 7.0 HP and upto 7.5H.P.	NOS	0.00	4085.20	NIL
1.8	14.A.3	P010H	For all types of submersible pumpsets above 7.5 HP and upto 8.0H.P.	NOS	0.00	4277.06	NIL
1.9	14.A.3	P010I	For all types of submersible pumpsets above 8.0 HP and upto 8.5H.P.	NOS	0.00	4470.05	NIL
1.10	14.A.4	P010J	For all types of submersible pumpsets above 8.5 HP and upto 9.0H.P.	NOS	0.00	4663.03	NIL
1.11	14.A.4	P010K	For all types of submersible pumpsets above 9.0 HP and upto 9.5H.P.	NOS	0.00	4854.89	NIL
1.12	14.A.4	P010L	For all types of submersible pumpsets above 9.5 HP and upto 10.0H.P.	NOS	0.00	5047.88	NIL
1.13	14.A.4	P010M	For all types of submersible pumpsets above 10 HP and upto 11 H.P.	NOS	0.00	5487.70	NIL
1.14	14.A.4	P010N	For all types of submersible pumpsets above 11 HP and upto 12 H.P.	NOS	0.00	5927.53	NIL
1.15	14.A.4	P010O	For all types of submersible pumpsets above 12 HP and upto 13 H.P.	NOS	0.00	6367.35	NIL
1.16	14.A.4	P010P	For all types of submersible pumpsets above 13 HP and upto 14 H.P.	NOS	0.00	6807.74	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.17	14.A.4	P010Q	For all types of submersible pumpsets above 14 HP and upto 15 H.P.	NOS	0.00	7247.56	NIL
2.	14.B.	P020	Replace the components of submersible pump sets, requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc. for:				
2.1	14.B.1	P020A	The bowls of same type and make	NOS	321.00	337.72	5.21
2.2	14.B.2	P020B	The Intermediate piece (IP) with IP leaded bronze brush.	NOS	744.00	781.47	5.04
2.3	14.B.3	P020C	The Oil Seal.	NOS	126.00	132.40	5.08
2.4	14.B.4	P020D	The Oil Seal. and steel brush	NOS	138.00	144.74	4.88
2.5	14.B.5	P020E	The Guide Vane	NOS	201.00	211.50	5.22
2.6	14.B.6	P020F	The Impeller (Shell moulded with aluminium and bronze.)	NOS	275.00	288.35	4.85
2.7	14.B.7	P020G	The discharge outlet (DO) bearing DO steel brush DO bearing.	NOS	544.00	571.10	4.98
2.8	14.B.8	P020H	The steel bearing brush (DO steel brush)	NOS	183.00	192.09	4.97
2.9	14.B.9	P020I	The allen screw	NOS	80.00	84.15	5.19
2.10	14.B.10	P020J	The pump shaft made out of stainless steel centreless ground with key way (upto 8 stages). Extra for each stage @ Rs. 40/-.	NOS	687.00	721.45	5.01
2.11	14.B.11	P020K	The pump key (stainless steel)	NOS	126.00	132.40	5.08
2.12	14.B.12	P020L	The pump coupling (stainless steel)	NOS	255.00	372.50	46.08
2.13	14.B.13	P020M	The Non Return Valve (NRV) assembly complete with rubber 'O' ring.	NOS	595.00	624.95	5.03
2.14	14.B.14	P020N	The cable guard	NOS	172.00	180.64	5.02
2.15	14.B.15	P020O	The strainer	NOS	201.00	211.61	5.28
2.16	14.B.16	P020P	The brass filter	NOS	126.00	132.40	5.08
2.17	14.B.17	P020Q	The Labour Charges for overhauling of the pump set.	NOS	572.00	600.27	4.94
3.	14.C.	P030	Replace the components of motor parts of submersible pump sets, items requiring replacements decided by the departmental officials, with respective make of damaged ones, including all materials, labour, equipments and testing etc and with guarantee for one year for:				
3.1	14.C.1.A	P030A	The STATOR of motor upto 3 H.P with one year warranty	NOS	0.00	5800.74	NIL
3.2	14.C.1.B	P030B	The STATOR of motor 3 to 4 H.P with one year warranty	NOS	0.00	6125.56	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.3	14.C.1.C	P030C	The STATOR of motor 4 to 5 H.P with one year warranty	NOS	0.00	6485.16	NIL
3.4	14.C.2.A	P030D	The ROTOR of motor upto 3.0 H.P with one year warranty	NOS	3546.00	3723.92	5.02
3.5	14.C.2.B	P030E	The ROTOR of motor 3 to 4 H.P with one year warranty	NOS	4118.00	4323.07	4.98
3.6	14.C.2.C	P030F	The ROTOR motor 4 to 5 H.P with one year warranty	NOS	4576.00	4804.40	4.99
3.7	14.C.3	P030G	The upper flange	NOS	344.00	361.28	5.02
3.8	14.C.4	P030H	The lower flange	NOS	561.00	445.43	-20.60
3.9	14.C.5	P030I	The lower housing	NOS	424.00	589.05	38.93
3.10	14.C.6	P030J	The Lock Ring	NOS	92.00	96.49	4.88
3.11	14.C.7.A	P030K	The Carbon Housing	NOS	424.00	445.43	5.05
3.12	14.C.7.B	P030L	The Carbon Housing (Thrust bearing block assembly complete with segment bearing pad.	NOS	572.00	600.83	5.04
3.13	14.C.7.C	P030M	The Carbon Housing (Top carbond / ferrodo padding)	NOS	1830.00	1921.99	5.03
3.14	14.C.8	P030N	The Stud and Nuts	NOS	92.00	96.49	4.88
3.15	14.C.9	P030O	The Gun Metal bearing, centrifugally cast Aluminium Bronze bearing brush	NOS	424.00	445.43	5.05
3.16	14.C.10	P030P	The Circlips	NOS	52.00	54.98	5.73
3.17	14.C.11	P030Q	The Motor base with pin	NOS	424.00	445.43	5.05
3.18	14.C.12	P030R	The Transportation of pumping machineries	NOS	629.00	600.27	-4.57
3.19	14.C.13	P030S	The Re-errection charges of pumping machineries including overhauling and painting	NOS	1144.00	1201.66	5.04
3.20	14.C.14	P030T	The lifting of submersible pumpset from well.	NOS	801.00	841.50	5.06
3.21	14.C.15	P030U	The Labour charges only for overhauling	NOS	572.00	600.27	4.94

CHAPTER - 18

BULK FLOW METERS

1. ELECTROMAGNETIC INDUCTION FLOW METERS:

1. Applications: Raw or potable water with chlorine content.
2. Conductivity : Maximum 500 MS / CM
3. Accuracy: + / - 5% flow reading.
4. Velocity Range : 0.3 m / sec. to 10 m / sec.
5. Power Supply : For the entire diameter pipes (100 mm to 300 mm) 230 Volts AC power supply with surge arrestor, inbuilt re-chargeable battery to provide backup for minimum 6 hours in the absence of grid supply.
6. Galvanic Isolation: All circuits of output and power supply to Galvanizically Isolated.
7. Tube Lighting Materials: PTFE Liner.
8. Electrode Material: SS 316 L.
9. Flow meter housing : Fully welded and corrosive resistant painted carbon / sheet steel (Housing single unit
10. Electrodes: 2 Measuring electrodes.
11. Display Unit: 2 or 3 line LCD display 16 characters per line with backlight to see the reading during night time. All diagnostics should be visible on the LCD screen. 1st Line - Flow rate in M3 /hr. 2nd Line - Totalizer in M3. 3rd Line - Electrode deposition / tamper status display.
12. Flange Material: CS flange
13. Type of Flange: ANSI / DIN type flange
14. Sensor Protection: IP 68
15. Transmitter Protection: IP 67.
16. Flow meter ambient Temperature: Upto 60 degree C.
17. Exact full model code and data sheet of the flow meter to be provided for each line size.
18. Data Logger: Internal / external with flow meter and data to be transmitted to server automatically for every 1 hour. Flow meter shall send 24 data message per day to remote server. Locally for every 5 minutes of interval in data logger. Per day 288 readings will be logged, per month 8640. Data of previous one year should be logged in to either internet / external data logger.

2. FLOW SENSORS:

1. Mounting: In field on pipe line (flow through flow sensor
2. Line Size: 100 mm to 300 mm.
3. Material Flow Tube: SS 316 / SS 304.
4. Grounding: Grounding / Earthing is required to protect flow meter from spurious signals. Earthing rings shall be provided at both flange ends. This will provide high degree of protection as compared to earthing electrode.
5. Electrodes: SS 316L.
6. Weather Protection for Flow Tube: IP 68.
7. Employ Pipe Detection (EPD): Integral part of design.
8. The sensors should be as per ISO standard lengths (ISO 13359) as applicable, so that interchangeability can be carried out. The sensors shall also have built in grounding and employ pipe detection facility.

3. FLOW TRANSMITTER / COMPUTATION:

1. Mounting: Transmitter panel mounted outside the meter chamber in proper location.
2. Type: Microprocessor based - 4 wire.
3. Protection : IP 67 (4). Power Supply : For the entire diameter pipes (100 mm to 300 mm) 230 Volts, AC power supply with surge arrestor. Inbuilt chargeable battery to provide backup for minimum 6 hours backup

in the absence of Grid supply. (5). Out put: 4 - 20 M Amps, digital and pulse outputs, Status Out puts, GPRS (Should support GSM also). Data logger out put : Through RS 485 / Ethernet.

- 6 Unit of Display: M3 (Cubic Meter) / hour, MLD, ML (Programmable).
- 7 Enclosure Material: Aluminium alloy with polyurethane coating.
- 8 Flow Meter Standards: Testing and calliratin - IS / ISO 17025. Meter Standard - ISO 4068.
- 9 Calibration and Testing: All the flow meters to be calibrated at manufacturer work place. Calibration / Test certificates to be provided as per IS / ISO 17025, periodical calibration facility to be provided if required.

4. PEDESTAL PANEL FOR TRANSMITTER UNIT:

1. The electronic display unit shall be installed on a removable back board. It should be an anti-corrosive material. Enclosure should be designed for IP 54, separate compartments for energy meter & converter and flow meter display unit and modem. Generated heat inside the flow meter should be dissipated and should not cause any harmful effects inside enclosure, wall or post mounting cabinet enclosure. The enclosure shall be constructed from galvanized steel which is at least 3 mm thick. The enclosure shall have a hinged access door, which shall have a facility for padlocking in the closed position. Batteries shall be easily accessible for periodic changing. For floor mounting enclosures, the enclosure shall be mounted on a concrete plinth, the surface of which shall be at least 120 cm. above the surrounding finished ground level. A cable duct shall pass through the plinth to enable the cable from the flow sensor to enter the enclosure. A table showing details of the Employer's name and the water meter's unique reference number shall be fixed to the external face of the access door. Contractors or equipment manufacturer's details shall not be fixed to the external face of the access door.
2. Transparent toughened glass of size 10 cm x 5 cm to be provided to see reading of BESCOM energy meter and flow meter separately. Panel should be provided with lock, master key, fan and filter for cooling / heat dissipation.
3. The enclosure shall be well ventilated, dust proof and vermin proof, and be suitable for robust use in a tropical climate. It shall also be suitable for:
 - (a) the housing of the integral data logger and the temporary housing of a battery powered data logger which could periodically be used in conjunction with the water meter.
 - (b) the permanent housing of any lightning protection system, the permanent housing of GPRS transmitter and battery pack, and any other items necessary to facilitate communication with the central server.

NOTES FOR BULK FLOW METERS:

1. The data rates are valid for only one year period and subject to variations in the market value.
2. The bulk meter totalizer/register shall be started immediately on installation of water meter.
3. Concerned officer shall strictly check testing and calibration certificate to ensure quality.
4. Necessary agreement shall be made by concerned officer for warranty and other conditions.
5. The bulk meter readings shall be synchronized to remote server at Cauvery Bhavan immediately.
6. Civil, mechanical and electrical charges extra to be estimated.

BULK FLOW METERS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	15.1	R010	Supply, Installation, Commissioning and Testing of GPRS + GSM based EMI flow meters on the Bulk water connections ranging from 100 mm to 300 mm. The electromagnetic meters should comprise of the specifications given in the notes of this chapter. III) Providing Electromagnetic Induction AMR water meters for 100 mm to 300 mm diameter. Supply, Installation, Commissioning and Testing of GPRS + GSM based EMI flow meters on the Bulk waters connections ranging from 100 mm to 300 mm. The electromagnetic meters should comprise of following specification. Specification: 1. Specification of electromagnetic induction Flow meters Application : Raw or Potable Water with chlorine content Conductivity : Maximum 500 MS/CM Accuracy : +/- 0.5% flow reading. Velocity Range : 0 .3 m / sec to 10 m/ sec Power Supply : For the entire diameter pipes (100 mm to 300 mm) 230 Volts AC power supply with surge arrester. Inbuilt rechargeable battery to provide backup for minimum 6 hrs battery backup in the absence of Grid Supply.				
			Galvanic Isolation : All circuits of output and power supply to Galvanizically Isolated. Tube Lining Material : PTFE liner. Electrode material : SS 316L Flow meter Housing : Fully Welded and corrosive resistant Painted Carbon / Sheet Steel. (Housing Single unit) Electrodes : 2 measuring electrodes/4 measuring electrodes Display Unit : 2 or 3 Line LCD display 16 characters per line with backlight to see the reading during night time. All diagnostics should be visible on the LCD screen 1st line : Flow Rate in M3 / hr 2nd line : Totaliser M3 3rd Line : Electrode deposition / tamper status display Flange material : CS Flange Type of Flange : ANSI/ DIN type Flange Sensor protection : IP 68 Transmitter Protection Flow meter Ambient Temperature : up to 60° C Exact full model code and data sheet of the flow meter to be provided for each line size. Data Logger: Internal / External with flow meter and data to be transmitted to server automatically for every 1 hour. Flow meter shall send 24 data message per day to remote server. Locally for every 5 minutes of interval in data logger. Per day 288 readings				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			will be logged, per month 8640. Data of previous 1 year should be logged in to either internal / external data logger 2. Specification for Flow Sensors : Mounting : In field on pipeline (flow through flow Sensor). Line Sizes : 100 mm to 300 mm. Material of Flow Tube : SS316 / SS304 Grounding : Grounding / Earthing is required to protect flow meter from spurious signal.				
1.1			Earthing rings shall be provided at both flange ends. This will provide high degree of protection as compared to earthing electrode Electrodes: SS316L Weather Protection for Flow Tube : IP68 Empty Pipe Detection (EPD) : Integral part of design with electrode. The sensors should be as per ISO Standard lengths (ISO 13359) as applicable, so that interchangeability can be carried out. The sensors shall also have built in grounding and empty pipe detection facility 3. Specification for Flow Transmitter/Computation: Mounting : Transmitter panel mounted outside the meter Chamber in proper location. Type : Microprocessor based : 4 wire Protection : IP67 Power supply : For the entire diameter pipes (100 mm to 300 mm) 230 Volts, AC power supply with surge arrester. Inbuilt rechargeable battery to provide backup for minimum 6 hrs battery backup in the absence of Grid supply. Output : 4-20 mA Amps, digital and pulse outputs, Status Outputs, GPRS (Should Support GSM also). Data Logger Output : Through RS 485/ Ethernet. Unit of Display : M3 (Cubic Meter) / hr, MLD, ML (Programmable). Enclosure Material: Aluminum alloy with polyurethane coating. Flow meter Standards : Testing & Calibration : IS / ISO 17025, ISO 9140 Meter Standard : ISO 4064 Calibration and Testing: All the flow meters to be calibrated at manufacturer work place. Calibration / Test certificates to be provided as per IS / ISO 17025, periodical calibration facility to be provided if required.				
			Specification for Pedestal Panel for Transmitter Unit : 1) The electronic display unit shall be installed on a removable backboard. It should be an anti corrosive material. Enclosure should be designed for IP54, separate compartment for energy meter & converter and flow meter display unit & modem. Generated heat inside the flow meter should be dissipated and should not cause any harmful effects inside enclosure, wall or post mounting cabinet enclosure. The enclosure shall				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			be constructed from galvanized steel which is at least 3 mm thick. The enclosure shall have a hinged access door, which shall have a facility for padlocking in the closed position. Batteries shall be easily accessible for periodic changing. For floor mounting enclosures, the enclosure shall be mounted on a concrete plinth, the surface of which shall be at least 120 cm above the surrounding finished ground level. A cable duct shall pass through the plinth to enable the cable from the flow sensor to enter the enclosure. A label showing details of the Employer's name and the water meter's unique reference number shall be fixed to the external face of the access door.				
1.2			<p>Contractors or equipment manufacturer's details shall not be fixed to the external face of the access door.</p> <p>2) Transparent toughened glassed of size 10 cm x 5 cm to be provided to see reading of BESCOM energy meter and flow meter separately. Panel should be provided with lock, master key, fan & filter for cooling / heat dissipation.</p> <p>3) The enclosure shall be well-ventilated, dust-proof and vermin-proof, and be suitable for robust use in a tropical climate. It shall also be suitable for :</p> <p>a) the housing of the integral data logger and the temporary housing of a battery powered data logger which could periodically be used in conjunction with the water meter.</p> <p>b) the permanent housing of any lightning protection system the permanent housing of GPRS transmitter and battery pack, and any other items necessary to facilitate communication with the central server.</p> <p>c) The permanent housing of BESCOM energy meter. The bulk meter totalizer / register shall be started immediately on installation of water meter. Concerned officer shall strictly check testing and calibration certificate to ensure quality. Necessary agreement shall be made by concerned officer for warranty and other conditions. The bulk meter reading shall be synchronized to remote server at Cauvery Bhavan immediately. Civil, Mechanical and Electrical charges extra to be estimated.</p> <p>1. The bulk meter totalizer / register shall be started immediately on installation of water meter.</p> <p>2. Concerned officer shall strictly check testing and calibration certificate to ensure quality.</p> <p>3. The bulk meter reading shall be synchronized to remote server at Cauvery Bhavan immediately.</p>				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			4. Civil, Mechanical and Electrical charges extra to be estimated.				
1.1	15.1.1	R010A	For Bulk Flow Meters, sensors, transmitter, panels etc. for 100 mm dia.	NOS	139000.00	173749.55	25.00
1.2	15.1.2	R010B	For Bulk Flow Meters, sensors, transmitter, panels etc. for 150 mm dia.	NOS	164000.00	204999.50	25.00
1.3	15.1.3	R010C	For Bulk Flow Meters, sensors, transmitter, panels etc. for 200 mm dia.	NOS	172000.00	214999.88	25.00
1.4	15.1.4	R010D	For Bulk Flow Meters, sensors, transmitter, panels etc. for 250 mm dia.	NOS	276000.00	344999.29	25.00
1.5	15.1.5	R010E	For Bulk Flow Meters, sensors, transmitter, panels etc. for 300 mm dia.	NOS	299000.00	373749.42	25.00
2.	15.1.1.A	R020A	Fabrication, supply and fixing of MS saddle (16 mm x 160 mm x 360 mm) to the existing DI pipe, the MS Saddle shall be fabricated out of 16 mm thick MS plate with 8 nos of threaded plug of length 6" for fixing of sensors and necessary GI bolts and nuts. The clamps shall have 2 halves. (applicable only if the pipe is DI) for 4 sensors.	SET	12000.00	13464.00	12.20
3.	15.1.1.B	R020B	Fabrication, supply and fixing of MS saddle (16 mm x 160 mm x 360 mm) to the existing DI pipe, the MS Saddle shall be fabricated out of 16 mm thick MS plate with 8 nos of threaded plug of length 6" for fixing of sensors and necessary GI bolts and nuts. The clamps shall have 2 halves. (applicable only if the pipe is DI) for 8 sensors.	SET	20000.00	22440.00	12.20
4.	15.1.2	R030A	Dismantle, transport, re-instal and commission the bulk flow meters with the following works: (1). Removing of sensor probes from the existing pipe lines (2). Dismantling of the sensor cables from the sensor probes on feeder main / branch lines. (3). Removing of the pedestal panel along with all its accessories like totalizer unit, batteries, GSM modem and display unit from the existing location and stacking the same into baggage. (4). Transportation of the pedestal panel along with all its accessories to the new location identified by the concerned engineer. (5). Erection of the sensor probes to the new line identified by the concerned engineer. The hot tapping method should be used while installing the sensor probes and supply, fixing of ball vale to the pipe. (6). Transmission of the data from the flow meter to the central server and integrating it to the software applications.	L.S	35000.00	39270.00	12.20

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.	15.1.3	R040A	Supply and Laying of multi-core sensor cable from the sensor probes to the transmitter panel.	RMT	300.00	336.60	12.20
6.	15.1.4.A	R050A	Supply and laying insulated cable on messenger wire using 2 single core wire for a single phase and stringing PVC insulated and PVC sheathed 650 / 1100 V class aluminium conductor of sizes supported by 3.15 mm GI messenger wire with two break insulators, one at each end of the span with suspenders at intervals 0.75m. Each suspender shall be porcelain reel insulator of suitable core through which insulated wire passes and this reel insulator shall be fixed to the messenger wire using 2 mm wire suitable bent and twisted. Separate reel insulator shall be provided for each wire, the messenger wire shall be ded-ended on the clamp provided to the departmental pole. The work shall also include, supply and fixing short pole, guy set, MS eye bolt and pole support clamp etc. for SINGLE PHASE USING 2 WIRE 10 SQMM.	RMT	100.00	112.20	12.20
7.	15.1.4.B	R060A	Supply and laying of LG UT cable having aluminium conductor PVC insulated, sheathed, galvanized steel wire / steel tap armored cable with PVC over sheathing.	RMT	75.00	84.15	12.20
8.	15.1.5	R070A	Arranging the power supply from BESCOM and payment of 2 MMD charges towards BESCOM for power sanction.	L.S	7500.00	8415.00	12.20

CHAPTER - 19

MULTI-TRACK BULK FLOW METERS

SPECIFICATIONS FOR MULTI TRACK ULTRASONIC BULK FLOW METERS

1. MULTI TRACK ULTRASONIC BULK FLOW METERS:

1. Applications: Raw or potable water with chlorine content.
2. Accuracy: + / - 5% flow reading.
3. Velocity Range: 0.3 m / sec. to 10 m / sec.
4. Power Supply : For the entire diameter pipes (450 mm to 1800 mm) 230 Volts AC power supply with surge arrestor, inbuilt re-chargeable battery to provide backup for minimum 6 hours.
5. Power Consumption: Less than 15W. galvanic Isolation:
6. Battery Life: 5 years.
7. Display Unit: 2 or 3 line LCD display 16 characters per line with backlight to see the reading during night time. All diagnostics should be visible on the LCD screen. 1st Line - Flow rate in M3 /hr. 2nd Line - Totalizer in M3.
8. Sensor Protection: IP 68
9. Transmitter Protection: IP 67.
10. Flow meter ambient Temperature: Upto 60 degree C.
11. Data Logger: Internal / external with flow meter and data to be transmitted to server automatically for every 1 hour. Flow meter shall send 24 data message per day to remote server. Locally for every 5 minutes of interval in data logger. Per day 288 readings will be logged, per month 8640. Data of previous one year should be logged in to either internet / external data logger.

2. FLOW SENSORS:

1. Mounting: In field on pipe line (flow through flow sensor).
2. Line Size: 450 mm to 1800 mm.
3. Sensor Material: SS 316 L / SS 316.
4. The sensors should be as per ISO standard lengths (ISO 13359) as applicable, so that interchangeability can be carried out. The sensors shall also have built in grounding and Employ pipe detection facility.
5. Weather Protection: IP 68.

3. FLOW TRANSMITTER / COMPUTATION:

1. Mounting: Transmitter panel mounted outside the meter chamber in proper location.
2. Type: Microprocessor based - 4 wire.
3. Protection : IP 67
4. Power Supply : For the entire diameter pipes (450 mm to 1800) 230 Volts AC power supply with surge arrestor. Inbuilt rechargeable battery to provide backup for minimum 6 hours backup in the absence of Gridy supply.
5. Out put: 4 - 20 M Amps, digital and pulse outputs, Status Out puts, GPRS (Should support GSM also). Data logger out put : Through RS 485 / Ethernet.
6. Unit of Display: M3 (Cubic Meter) / hour, MLD, ML (Programmable).
7. Enclosure Material: Aluminium alloy with polyurethane quoting.
8. Flow Meter Standards: Testing and calliratin - IS / ISO 17025. Meter Standard - ISO 4064.
9. Calibration and Testing: All the flow meters to be calibrated at manufacturer work place. Calibration/ Test certificates to be provided as per IS / ISO 17025, periodical calibration facility to be provided if required. Sampling size as per IS 2500 of the supplied quantity in each diameter shall be tested and calibrated at FCRI as per IS and ISO 17025.

4. PEDESTAL PANEL FOR TRANSMITTER UNIT:

The electronic display unit shall be installed on a removable back board. It should be an anti-corrosive material. Enclosure should be designed for IP 54, separate compartments for energy meter & converter and flow meter display unit and modem. Generated heat inside the flow meter should be dissipated and should not cause any harmful effects inside enclosure, wall or post mounting cabinet enclosure. The enclosure shall be constructed from galvanized steel which is at least 3 mm thick. The enclosure shall have a hinged access door, which shall have a facility for padlocking in the closed position. Batteries shall be easily accessible for periodic changing. For floor mounting enclosures, the enclosure shall be mounted on a concrete plinth, the surface of which shall be at least 120 cm. above the surrounding finished ground level. A cable duct shall pass through the plinth to enable the cable from the flow sensor to enter the enclosure. A table showing details of the Employer's name and the water meter's unique reference number shall be fixed to the external face of the access door. Contractors or equipment manufacturer's details shall not be fixed to the external face of the access door.

- (a). Transparent toughened glass of size 10 cm x 5 cm to be provided to see reading of BESCOM energy meter and flow meter separately. Panel should be provided with lock, master key, fan and filter for cooling / heat dissipation. The enclosure shall be well ventilated, dust proof and vermin proof, and be suitable for robust use in a tropical climate. It shall also be suitable for:
- (i) the housing of the integral data logger and the temporary housing of a battery powered data logger which could periodically be used in conjunction with the water meter.
 - (ii) the permanent housing of any lightning protection system, the permanent housing of GPRS transmitter and battery pack, and any other items necessary to facilitate communication with the central server.
 - (iii) The permanent housing of BESCOM energy meter.

NOTES FOR MULTI TRACK ULTRASONIC BULK FLOW METERS:

1. The data rates are valid for only one year period and subject to variations in the market rate.
2. The bulk meter totalizer/register shall be started immediately on installation of water meter.
3. Concerned officer shall strictly check testing and calibration certificate to ensure quality.
4. Necessary agreement shall be made by concerned officer for warranty and other conditions.
5. The bulk meter readings shall be synchronized to remote server at Cauvery Bhavan within 3 days.
6. Civil, mechanical and electrical charges extra to be estimated.

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	16.1	S010	Supply, Installation, Commissioning and Testing (for receipt of readings to the Central Server at Cauvery Bhavan) of GPRS + GSM based Multi Track Ultrasonic Bulk Flow Meters to the inlet, outlet, feeder mains and distribution branches ranging from 450 mm to 1800 mm. The flow meter shall be installed using hot tapping method and existing water supply lines. The data shall be synchronized to existing software. The Ultrasonic Bulk Meters shall comply with the specifications given in the starting of this chapter.				
1.1	16.1.1	S010A	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 400 / 450 mm dia.	NOS	340000.00	414999.75	22.06
1.2	16.1.2	S010B	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 600 mm dia.	NOS	390000.00	464999.44	19.23
1.3	16.1.3	S010C	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 700 mm dia.	NOS	390000.00	499999.10	28.20
1.4	16.1.4	S010D	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 800 mm dia.	NOS	395000.00	554999.54	40.51
1.5	16.1.5	S010E	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 900 mm dia.	NOS	395000.00	554999.54	40.51
1.6	16.1.6	S010F	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 1000 / 1100 mm dia.	NOS	420000.00	564999.93	34.52
1.7	16.1.7	S010G	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 1200 mm dia.	NOS	460000.00	584999.58	27.17
1.8	16.1.8	S010H	For Multi Track Ultrasonic Bulk Flow Meters, sensors, transmitter, panels etc. for 1800 mm dia.	NOS	490000.00	674999.69	37.76
2.	16.VI.	S020	Testing, calibration of existing Ultrasonic Bulk Flow Meters with portable flow meter, repair / rectification of existing Ultrasonic Bulk Flow Meters etc. with any or all of the following works:				
2.1	16.VI.1	S020A	Supply and laying of sensor cable from flow sensor to transmitter panel.	RMT	300.00	336.60	12.20
2.2	16.VI.2	S020B	Repair or replacement of existing panel for painting, welding, replacement of rubber gaskets, complete re-wiring, cleaning the panel with dust cleaner and providing panel lock.	NOS	6000.00	6732.00	12.20
2.3	16.VI.3	S020C	Repairing the totalizer unit	NOS	5000.00	5610.00	12.20
2.4	16.VI.4	S020D	Re-placement of (if required) GSM modem by GPRS.	NOS	15000.00	16830.00	12.20
2.5	16.VI.5	S020E	Calibration of flow meter sensors and testing for results with portable flow meter and realignment of sensors.	SET	10000.00	11220.00	12.20

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.6	16.VI.6	S020F	Shifting of transmitter panel with all points accessories from one location to other location as per direction of Engineer in charge.	SET	10000.00	11220.00	12.20

CHAPTER - 20

SANITARY WORK

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	17.1	T010	Earth work excavation for trenches, in ordinary soil, of required width for pipes, cables, sockets for depth upto 1 Meter, including removing the excavated soil and then refilling the excavated stuff in layers of 20 cms. reaming well and disposing off the extra stuff as directed with lead of 50 meters etc. for:				
1.1	17.1.1.A	T010A	Pipes of dia not exceeding 75 mm and depth upto 1.0 M in ordinary soils Note : If any shoring and strutting, will be paid separately.	RMT	17.92	88.07	391.46
1.2	17.1.1.B	T010B	Pipes of dia exceeding 75 mm and not exceeding 300 mm and depth upto 1.0 M in ordinary soils Note : If any shoring and strutting, will be paid separately.	RMT	22.40	149.10	565.63
2.	17.1.2	T020	Earth work excavation for trenches, in hard soil, of required width for pipes, cables, sockets for depth upto 1 Meter, including removing the excavated soil and then refilling the excavated stuff in layers of 20 cms. ramping well and disposing off the extra stuff as directed with lead of 50 meters etc. for:				
2.1	17.1.2.A	T020A	Pipes of dia not exceeding 75 mm and depth upto 1.0 M in hard soils Note : If any shoring and strutting, will be paid separately.	RMT	19.04	134.42	605.99
2.2	17.1.2.B	T020B	Pipes of dia not exceeding 75-300 mm and depth upto 1.0 M in hard soils Note : If any shoring and strutting, will be paid separately.	RMT	25.76	176.14	583.77
3.	17.2	T030	Supplying, lowering, laying, jointing, testing and commissioning of Glazed Stone Ware Pipes of following dia, conforming to IS 651:1992, IS 4127 with latest amendments, including conveying to work site, caulking with hemp dipped in tar and jointing with CM 1:1.5 using OPC, perfect linking and curing for 10 days and testing with water etc. with all lead, lifts and as per Technical Specifications. The cost to include the cost of all jointing materials, necessary survey works for laying of sewer lines etc. complete. The contractor will make own arrangements for procuring water for testing.				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.1	17.2.A	T030A	100 mm dia. pipes (This is for house service connection only)	RMT	139.93	209.26	49.55
3.2	17.2.B	T030B	150 mm dia. pipes	RMT	209.15	332.14	58.80
3.3	17.2.C	T030C	200 mm dia. pipes	RMT	301.76	413.01	36.87
3.4	17.2.D	T030D	230 mm dia. pipes	RMT	437.69	466.68	6.62
3.5	NEW	T030E	250 mm dia. pipes	RMT	0.00	487.68	NIL
3.6	17.2.E	T030F	300 mm dia. pipes	RMT	720.72	559.16	-22.42
3.7	NEW	T030G	380 mm dia. pipes	RMT	0.00	845.83	NIL
4.	17.3	T040	Supplying lowering laying, jointing, testing and commissioning of following diameters glazed stone ware pipes, conforming to IS 651:1992, (with 5th revision) in all respects jointing with EPDM rubber rings (seals according to EN 681 & ASPM 425) The rubber seals joints pipe will have groves in interior of socket and exterior of the spigot. The rubber gasket shall be prefixed at the factory by the manufacturer rigidly with approved glue to have leak proof joint including conveying of pipe to work site and rolling and lowering into trenches, laying true to line, level and perfect linking at joints testing and commissioning including loading and unloading at both destinations and cuts of pipes wherever necessary including jointing of GSW pipes and specials, with rubber gaskets conforming to EN 681 and ASTM C-425 including cleaning the socket and spigot with soap solution and applying talcum powder for detecting crack, then applying glue and before inserting of rubber gaskets, jacking and fixing in perfect condition including the cost of soap solution, talcum powder and glue etc. and giving necessary hydraulic test to the required pressure of water head with all lead and lifts including costing of jointing materials and all necessary survey works for laying of sewers etc., and disposal of debris as directed etc., complete. (Contractor will make his own arrangements for procuring for testing) with Rubber ring gasket joints				
4.1	OLD	T040A	100 mm dia. pipes (This is for house service connection only)	RMT	0.00	240.60	NIL
4.2	17.3.A	T040B	150 mm dia. pipes	RMT	344.83	364.23	5.63
4.3	17.3.B	T040C	200 mm dia. pipes	RMT	456.58	442.87	-3.00
4.4	17.3.C	T040D	230 mm dia. pipes	RMT	532.26	500.76	-5.92
4.5	OLD	T040E	250 mm dia. pipes	RMT	0.00	521.77	NIL
4.6	17.3.E	T040F	300 mm dia. pipes	RMT	786.49	583.92	-25.76

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.	17.4	T050	Supplying S&S RCC SPUN / VIBRATED CAST PIPES (REINFORCED) pipes NP-3 Class conforming to IS:458-1988 with latest amendments using ordinary portland cement, for sanitary works and conveying to work site, rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes and specials including cost of specials, perfect linking of joints with jack to correct position including cost of jointing materials, i.e, rubber rings conforming to IS: 5382 for S&S RCC pipes, with all leads and lifts as directed and giving necessary hydraulic test as per ISS to the required pressure and commissioning etc. complete. (Contractor will make his own arrangements for procuring water for testing). Before the execution of the work, the contractor shall carry out the survey and will be paid extra for the same as per separate item.:				
5.1	17.4.1.	T050A	RCC NP3 Class pipe of 250 mm dia.	RMT	1276.71	1390.56	8.92
5.2	17.4.2	T050B	RCC NP3 Class pipe of 300 mm dia.	RMT	1533.55	1659.46	8.21
5.3	17.4.3	T050C	RCC NP3 Class pipe of 350 mm dia.	RMT	1591.17	1793.99	12.75
5.4	17.4.4	T050D	RCC NP3 Class pipe of 400 mm dia.	RMT	1650.95	1953.14	18.30
5.5	17.4.5	T050E	RCC NP3 Class pipe of 450 mm dia.	RMT	1850.45	2137.84	15.53
5.6	17.4.6	T050F	RCC NP3 Class pipe of 500 mm dia.	RMT	2104.84	2414.50	14.71
5.7	17.4.7	T050G	RCC NP3 Class pipe of 600 mm dia.	RMT	2731.59	3110.40	13.87
5.8	17.4.8	T050H	RCC NP3 Class pipe of 700 mm dia.	RMT	3370.83	3840.43	13.93
5.9	17.4.9	T050I	RCC NP3 Class pipe of 800 mm dia.	RMT	4239.54	4858.39	14.60
5.10	17.4.10	T050J	RCC NP3 Class pipe of 900 mm dia.	RMT	5232.63	5921.55	13.17
5.11	17.4.11	T050K	RCC NP3 Class pipe of 1000 mm dia.	RMT	5941.96	6854.17	15.35
5.12	17.4.12	T050L	RCC NP3 Class pipe of 1100 mm dia.	RMT	6997.95	8018.81	14.59
5.13	17.4.13	T050M	RCC NP3 Class pipe of 1200 mm dia.	RMT	8057.80	9206.45	14.26
5.14	17.4.14	T050N	RCC NP3 Class pipe of 1400 mm dia.	RMT	11752.00	13430.06	14.28
5.15	17.4.15	T050O	RCC NP3 Class pipe of 1600 mm dia.	RMT	17540.22	18181.13	3.65
5.16	17.4.16	T050P	RCC NP3 Class pipe of 1800 mm dia.	RMT	19768.13	21804.48	10.30
5.17	17.4.17	T050Q	RCC NP3 Class pipe of 2000 mm dia.	RMT	23880.49	25826.41	8.15
5.18	17.4.18	T050R	RCC NP3 Class pipe of 2200 mm dia.	RMT	23900.42	27339.32	14.39
5.19	17.4.19	T050S	RCC NP3 Class pipe of 2400 mm dia.	RMT	34294.87	33980.78	-0.92

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
6.	17.5	T060A	Supplying of and application of Polymer based protective ELASTOMERIC COATING with zero VOC for complete inside surface of RCC sewers, with minimum dry film of thickness 1 mm, acid resistant, abrasive resistant, adhesive to concrete surfaces, durable and pinhole / break free with smooth surface etc. complete as per relevant applicable technical specification clauses. The cost to include all labour, HOM of equipments, lead, lifts, taxes etc., complete. The spray coating shall be applied by approved and controlled mechanical spray method. The spraying for RCC sewers to be before delivery at site or applied at site and include surface preparation and testing, as approved by BWSSB. The rate to include cost of all materials, tools and plants, testing, inspection etc. complete.	SQM	0.00	1290.30	NIL
7.	17.6	T070	Labour charges for laying and jointing glazed stone ware pipes of 0.6m length and of specified dia., of tested quality conforming to IS 651 of 1965 including caulking with hemp yarn, jointing with CM 1:2 and testing with water etc. complete for: (Rate to include cost of jointing materials and transportation of pipes from store work site but excluding the cost of earth work)				
7.1	17.6.1	T070A	Glazed Stone Ware pipe of 150 mm dia and 600 mm long	RMT	48.47	70.36	45.16
7.2	17.6.2	T070B	Glazed Stone Ware pipe of 200 mm dia and 600 mm long	RMT	77.87	94.85	21.81
7.3	17.6.3	T070C	Glazed Stone Ware pipe of 230 mm dia and 600 mm long	RMT	87.95	108.45	23.31
7.4	17.6.4	T070D	Glazed Stone Ware pipe of 300 mm dia and 600 mm long	RMT	114.92	157.37	36.94
7.5	17.6.5	T070E	Glazed Stone Ware pipe of 380 mm dia and 600 mm long	RMT	141.82	189.68	33.75
8	17.7	T080A	Providing and fixing 100 mm dia. CI soil pipe with necessary specials like Tees and jointing with CM 1:2 and fixing on teak wood plugs with necessary scaffolding etc.	RMT	219.95	656.21	198.35
9	17.8	T080B	Providing and fixing 75 mm dia. CI soil pipe with necessary specials like Tees and jointing with CM 1:2 and fixing on teak wood plugs with necessary scaffolding etc.	RMT	184.18	527.18	186.23
10	17.9	T080C	Labour charges for fixing and jointing 60 mm to 100 mm dia. CI soil pipe Tees and jointing with CM 1:2 and fixing on teak wood plugs with necessary scaffolding etc.	RMT	39.27	95.21	142.45

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
11	17.10.	T080D	Labour charges for fixing CI specials like bend etc. in CM 1:2 etc. for 75 mm soil pipes	NOS	44.40	55.91	25.92
12	17.10.1	T080E	Labour charges for fixing CI specials like bend etc. in CM 1:2 etc. for 100 mm soil pipes	NOS	51.31	27.82	-45.78
13	17.55	T080F	Making bores in stone masonry walls upto 0.45M wide for soil / water pipe works and re-doing it with CM 1:4	NOS	27.94	68.80	146.24
14	17.55.1	T080G	Making bores in stone masonry walls 0.6 to 0.9 M wide for soil / water pipe works and re-doing it with CM 1:4	NOS	33.88	121.57	258.83
15	17.55.2	T080H	Making bores in stone masonry walls 0.9 to 1.2 M wide for soil / water pipe works and re-doing it with CM 1:4	NOS	46.22	154.44	234.14
16	17.56	T080I	Making bores in brick masonry walls upto 0.45M wide for soil / water pipe works and re-doing it with CM 1:4	NOS	0.00	100.18	NIL
17	17.57	T080J	Making bores in terrace slab or chajja upto 0.45M wide for soil / water pipe works and re-doing it with CC 1:2:4 and CM 1:4	NOS	0.00	200.44	NIL
18	17.58	T080K	Making bores in manholes upto 0.45M wide for soil / water pipe works and re-doing it with CC 1:2:4 and CM 1:4	NOS	0.00	200.44	NIL
19	17.69	T080L	Encasing the CI soil pipes of 75 mm and 100 mm dia. with burnt brick in CM 1:3 and plastering and finishing neat etc. complete with necessary scaffolding at all levels etc.	RMT	0.00	527.60	NIL
20	17.70.	T080M	Labour charges for cutting CI soil pipe lines 75 mm and 100 mm dia and inserting relevant soil junctions.	NOS	0.00	196.37	NIL
21	17.71	T080N	Drilling holes in 100 mm and 75 mm dia. soil pipes, cleaning the door bends, provide and fix new eye plates with necessary bolts and nuts.	NOS	0.00	165.95	NIL
22	17.77	T080O	Painting CI soil pipe 100 mm and 75 mm dia. with two coats of green or any approved paint.	RMT	0.00	30.57	NIL
23	17.11.	T090	Providing and fixing normal gauge polythene pipes of approved quality with special flange compression type fittings of approved make including trench excavation and refilling etc. for EXTERNAL WORKS with:				
23.1	17.11.1	T090A	25 mm nominal bore pipes	RMT	0.00	57.22	NIL
23.2	17.11.2	T090B	32 mm nominal bore pipes	RMT	0.00	76.30	NIL
23.3	17.11.3	T090C	40 mm nominal bore pipes	RMT	0.00	93.13	NIL
23.4	17.11.4	T090D	50 mm nominal bore pipes	RMT	0.00	148.10	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
24	17.12	T100A	Fixing white vitreous China Clay English closet in CM 1:3, "P" or "S" trap with 13.71 Ltrs. GI flushing cistern 32 mm GI telescope flush pipe double flapped plastic sent chain pull etc. complete including white enamel painting to all iron plates etc. excluding the cost of closet.	NOS	1963.77	2234.79	13.80
25	17.13	T100B	Fixing white vitreous China Clay Indian Closet in cement concrete 1:2:4 with "S" or "P" trap, 58.42 or 45.72 cms overall length, pair of white glazed foot rests etc. and without flushing cistern arrangement. The cost is excluding the cost of closet.	NOS	381.41	450.67	18.16
26	17.13	T100C	Fixing white vitreous China Clay Indian Closet in cement concrete 1:2:4 with "S" or "P" trap, 58.42 or 45.72 cms overall length, pair of white glazed foot rests etc. and with flushing cistern of 13.64 ltrs, 32 mm dia. GI telescope flush pipe, including white enamel painting all iron parts etc. The cost is excluding the cost of closet and cost of flushing cistern.	NOS	1307.63	1562.00	19.45
27	17.14	T100D	Fixing white vitreous China Clay English water closet with "P" or "S" trap with Low Down cistern of syphonic type, 32 mm dia. flush pipe, double flapped plastic seat, including cutting and fixing the flush pipe to suit, two coats of enamel painting to all iron fixtures etc. excluding the cost of closet and low down cistern.	NOS	0.00	1900.84	NIL
28	17.41	T100E	Providing and fixing vitreous China clay foot rest in CM 1:3	PAIR	74.92	145.97	94.83
29	17.41.1	T100F	Providing and fixing stoneware foot rest in CM 1:3	PAIR	50.84	114.22	124.67
30	17.41.2	T100G	Providing and fixing Marble foot rest in 1:3	PAIR	148.84	205.78	38.26
31	17.42	T100H	Providing and fixing new plastic seat cover, double flapped for EWC with all fittings.	NOS	675.24	464.40	-31.22
32	17.43	T100I	Providing and fixing 31.8 mm dia.GI telescopic flush pipe for high level cistern for water closets.	NOS	195.17	200.69	2.83
33	17.44	T100J	Providing and fixing 31.8 mm dia.GI flush pipe and bend for low level cisterns of water closets.	NOS	70.33	108.93	54.88
34	17.45	T100K	Providing and fixing 31.8 mm dia.GI flush and bend pipes at flush tank level	NOS	77.47	108.93	40.61
35	NEW	T100L	Providing and fixing Chain pulls for High Level flushing cistern.	NOS	0.00	144.59	NIL
36	17.63	T100M	Fixing 13 ltrs or 5 ltr capacity CI flushing cistern on GI brackets fixed on T.W plugs.	NOS	0.00	266.54	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
37	17.15/16	T110A	Fixing white vitreous china flat back lipped front urinal basin of 430x260x350 mm with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and GI clams etc. complete and including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. for One urinal basin with 5 litre PVC automatic flushing cistern (excluding the cost of urinals)	NOS	0.00	1252.23	NIL
38	17.15/16	T110B	Fixing white vitreous china flat back lipped front urinal basin of 430x260x350 mm with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and GI clams etc. complete and including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. for Range of two urinal basins with 5 litre white PVC automatic flushing cistern (excluding the cost of urinals)	NOS	0.00	1891.89	NIL
39	17.15/16	T110C	Fixing white vitreous china flat back lipped front urinal basin of 430x260x350 mm with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and GI clams etc. complete and including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. for Range of three urinal basins with 10 litre white PVC automatic flushing cistern (Excluding the cost of urinals)	NOS	0.00	2648.67	NIL
40	17.15/16	T110D	Fixing white vitreous china flat back lipped front urinal basin of 430x260x350 mm with automatic flushing cistern with standard flush pipe and CP brass spreaders with brass union and GI clams etc. complete and including painting of fittings and brackets, cutting and making good the walls and floors wherever required etc. for Range of four urinal basins with 10 litre white PVC automatic flushing cistern	NOS	0.00	3784.47	NIL
41	17.15/16	T110F	Fixing one piece construction WHITE VITREOUS CHINA SQUATTING PLATE with an integral longitudinal flushing pipe, white PVC automatic flush- ing cistern with fittings, standard size G.I flush pipe for back and front flush with standard spreader pipes with fittings, G.I clamps and C.P brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required, type for Single squatting plate, with 5.0 litre PVC automatic flushing cistern. Excluding the cost of squatting plate.	NOS	0.00	1551.93	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
42	17.18	T120A	Providing and fixing stone ware gully trap of 100 mm dia. in cement concrete 1:2:4 and plastering exposed areas in CM 1:3	NOS	245.78	277.93	13.08
43	17.18.1	T120B	Providing and fixing stone ware gully trap of 150 mm dia. in cement concrete 1:2:4 and plastering exposed areas in CM 1:3	NOS	207.43	327.63	57.95
44	17.21	T120D	Providing and fixing SQUARE MOUTH S.W GULLY TRAP GRADE "A" COMPLETE WITH CI GRATING brick masonry chamber with CC 1:5:10 bed, brick works in CM 1:4, inside and out side plaster 12 mm thick in CM 1:3, water tight CI cover with frame of 300 x 300 mm size (inside), the weight of cover to be not less than 4.5 kg. and frame to be not less than 2.70 kg as per standard design and grouting the frame with CC 1:2:4 etc. for size and type Size of 100 x 100 mm Square mouth SW gully trap	NOS	0.00	1496.84	NIL
45	17.22	T120E	Providing and fixing SQUARE MOUTH S.W GULLY TRAP GRADE "A" COMPLETE WITH CI GRATING brick masonry chamber with CC 1:5:10bed, brickworks in CM 1:4, inside and outside plaster 12 mm thick in CM 1:3, water tight CI cover with frame of 300 x 300 mm size (inside), the weight of cover to be not less than 4.5 kg. and frame to be not less than 2.70 kg as per standard design and grouting the frame with CC 1:2:4 etc. for size and type : Size of 125 x 100 mm Square mouth SW gully trap	NOS	431.94	1527.92	253.73
46	17.22A	T120F	Providing and fixing SQUARE MOUTH S.W GULLY TRAP GRADE "A" COMPLETE WITH CI GRATING brick masonry chamber with CC 1:5:10 bed, brick works in CM 1:4, inside and out side plaster 12 mm thick in CM 1:3, water tight CI cover with frame of 300 x 300 mm size (inside), the weight of cover to be not less than 4.5 kg. and frame to be not less than 2.70 kg as per standard design and grouting the frame with CC 1:2:4 etc. for size and type : Size of 150 x 100 mm Square mouth SW gully trap.	NOS	424.93	1531.41	260.39
47	NEW	T120G	Providing and fixing SQUARE MOUTH S.W GULLY TRAP GRADE "A" COMPLETE WITH CI GRATING brick masonry chamber with CC 1:5:10 bed, brick works in CM 1:4, inside and out side plaster 12 mm thick in CM 1:3, water tight CI cover with frame of 300 x 300 mm size (inside), the weight of cover to be not less than 4.5 kg. and frame to be not less than 2.70 kg as per standard design and grouting the frame with CC 1:2:4 etc. for size and type : Size of 180 x 100 mm Square mouth SW gully trap.	NOS	0.00	1653.78	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
48	17.24	T130A	Constructing brick masonry chamber of internal dimension 600x450 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	1242.00	2933.82	136.22
49	17.24.1	T130B	Constructing brick masonry chamber of internal dimension 600x600 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	1385.00	3344.25	141.46
50	17.25	T130C	Constructing brick masonry chamber of internal dimension 450x450 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	882.76	2598.15	194.32
51	17.25.1	T130D	Constructing brick masonry chamber of internal dimension 450x300 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	818.23	2171.07	165.34
52	17.25.2	T130E	Constructing brick masonry chamber of internal dimension 300x230 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	658.01	1693.73	157.40
53	17.25.3	T130F	Constructing brick masonry chamber of internal dimension 230x150 mm and depth of 600 mm (inner dimensions) with modular bricks of CD 75 in cement mortar 1:6, bed concrete 150 mm thick with 1:3:6, plastering 12 mm thick with cement mortar 1:4, CC 1:2:4 coping 75 mm thick for fixing CI cover & frame etc. excluding the cost of CI frame and cover..	NOS	537.82	1364.61	153.73

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
54	17.17	T140A	Fixing Vitreous China Clay Hand Wash basin (excluding the cost of basin) with NP waste fittings, chain, CI brackets, painting the brackets etc. Excluding the cost of wash basin.	NOS	703.00	713.23	1.46
55	17.26	T140B	Fixing pedestal type hand wash basin with stand combination including NP waste fittings etc. as per specification etc. excluding the cost of wash basin and pedestal.	NOS	824.97	584.05	-29.20
56	17.27	T140C	Fixing Vitreous China Wash basin hospital type with elbow action with spray pipe, NP fittings etc. as per design, with CI brackets, painting brackets, etc. excluding the cost of wash basin.	NOS	918.99	960.07	4.47
57	17.28	T140D	Fixing Vitreous China Wash basin hospital type with foot or knee action combination with spray pipe as per design, with CI brackets, painting brackets, etc. excluding the cost of wash basin.	NOS	946.54	713.23	-24.65
58	17.29	T150A	Fixing white vitreous china clay or mosaic bath tubs (exclud. cost of bath tub) with hot and cold water fittings and over flow arrangements etc. complete with necessary preparation works etc. as per detailed specifications and drawings and spray painting if necessary.	NOS	1299.62	1593.10	22.58
59	17.31	T160A	Providing & fixing glass mirror (belgium) beveled edges, rectangular shape, with white wood frame 600 x 450 mm and fixing teak wood plugs in the wall.	NOS	684.28	776.25	13.44
60	17.3	T160C	Providing and fixing nickel plated showers of 15 mm dia. and standard length.	NOS	195.43	240.84	23.24
60.1	17.30.1	T160B	Providing and fixing nickel plated showers of 20 mm dia. and standard length.	NOS	148.69	268.89	80.84
61	17.32	T160D	Providing and fixing towel rail, nickel plated, 600 mm long, 20 mm dia., NP brackets fixed on T.W plugs etc.	NOS	0.00	701.98	NIL
61.1	17.32.1	T160E	Providing and fixing towel rail, nickel plated, 450 mm long, 20 mm dia., NP brackets fixed on T.W plugs etc.	NOS	0.00	185.86	NIL
62.	17.32	T160F	Providing and fixing towel rail made of anodised aluminium, 600 mm long, 20 mm dia., anodised aluminium brackets fixed on T.W plugs etc.	NOS	0.00	701.98	NIL
62.1	17.32.1	T160G	Providing and fixing towel rail made of anodised aluminium, 450 mm long, 20 mm dia., Anod. alum. brackets fixed on T.W plugs etc.	NOS	0.00	185.86	NIL
63.	17.33	T160H	Providing and fixing Toilet paper holder Vitreous China Clay with wooden plug and brass screws and with a roll of paper etc. as per specifications.	NOS	414.74	287.56	-30.66

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
64.	17.35	T160J	Fixing white vitreous china clay glazed sink with wrought iron plug on CI cantilevered brackets in the wall, including two coats of enamel painting etc. complete, excluding the cost of glazed sink.	NOS	923.76	510.71	-44.71
65.	17.36	T160K	Providing & fixing 600x 150x 5 mm GLASS SHELF with edges rounded off supported on N.P. brass brackets and guard rail fixed with 40 mm long screws, rawl plugs etc. complete .	NOS	191.73	233.14	21.60
65.1	17.36.1	T160L	Providing & fixing 600x 120x 5 mm GLASS SHELF with edges rounded off supported on anodised aluminium angle frame with CP brass brackets and guard rail fixed with 40 mm long screws, rawl plugs etc. complete .	NOS	305.57	340.93	11.57
66.	17.37	T160M	Providing and fixing 100 mm dia. AC Cowl as directed.	NOS	83.66	111.09	32.79
67.	17.38	T160N	Providing and fixing 100 mm dia. Zinc Cowl as directed.	NOS	38.79	78.42	102.17
68.	17.39	T160O	Providing and fixing 30 mm dia. lead pipe with wiped solder joints for waste connections	NOS	232.00	260.30	12.20
68.1	17.39.1	T160P	Providing and fixing 38 mm dia. lead pipe with wiped solder joints for waste connections	NOS	255.00	286.11	12.20
68.2	17.39.2	T160Q	Providing and fixing 50 mm dia. lead pipe with wiped solder joints for waste connections	NOS	414.00	464.51	12.20
69.	17.40.	T160R	Providing and fixing 30 mm dia. lead pipe for extension of telescopic flush pipe including wiped solder joints and bending etc. complete with two coats of enamel painting.	NOS	140.00	157.08	12.20
70	17.48	T160S	Providing and fixing chain pulls for high level flushing cistern	NOS	33.50	80.88	141.43
71	17.49	T160T	Providing and fixing NP gratings of 150 mm dia.	NOS	68.21	63.45	-6.98
71.1	17.49.1	T160U	Providing and fixing CI gratings of 150 mm dia.	NOS	28.67	66.48	131.88
71.2	17.49.2	T160V	Providing and fixing liquid soap glass dispenser and holder as per design	NOS	140.67	206.01	46.45
72.	17.50.	T160W	20.10.3.1: 15 mm dia (Min Wt 283 gm & float 114 mm dia)	NOS	199.11	221.14	11.06
73	17.51	T170A	Providing and fixing CI brackets in walls for fixing wash basins	PAIR	78.73	159.44	102.51
73.1	17.51.1	T170B	Providing and fixing CI brackets in walls for fixing flushing tanks	PAIR	65.44	159.44	143.64
73.2	17.51.2	T170C	Providing and fixing CI brackets in walls for fixing sink	PAIR	158.48	159.44	0.61
74	17.54	T170D	Providing and fixing rubber plug and chain for hand wash basins	NOS	27.33	85.10	211.38

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
75	17.80.	T170E	Providing and fixing M.S foot rests with CC 1:3:6 and 20 x 20 mm square bar for Manholes	NOS	0.00	243.73	NIL
75.1	17.80.	T170F	Providing and fixing M.S foot rests with CC 1:3:6 and with 20 mm dia. round bar for manholes	NOS	0.00	193.24	NIL
76.	17.46	T180A	Providing and fixing automatic flushing tank of capacity 4.5 ltrs. including the cost of syphon and flush pipe and other accessories necessary to drawn of etc. complete.	NOS	1283.51	972.74	-24.21
77.	17.47	T180B	Constructing flushing tank 900 ltrs. capacity of size 1.8 x 0.9 x 0.65 mtrs. inside, on a bed of 2.4M x 1.4M in CC 1:2:4 and 15 cms thick, walls of 22.5 cm thick in burnt brick work, plastering both inside and outside in CM 1:3, covering with one line dressed B.S slab of 15 mm thik and 1.9 x 1.25 cms size with a vent for manhole fixed in CM 1.4, including providing C.I manhole and frame (0.38 quintal) and fixing it in CC 1:2:4, providing necessary pipe, syphon discharge connection as per specification and design. The work include necessary earth work excavations in all soils etc. complete.	NOS	6866.90	9664.66	40.74
78.	17.52	T190A	Providing and fixing 1800 ltrs. capacity welded steel tank made of thick gauge MS plate, with top cover and locking arrangements and necessary painting etc. complete including hoisting with necessary scaffolding etc. upto a height of 12.20 Mtrs.	NOS	6263.98	7252.05	15.77
79.	17.53	T190B	Providing and fixing 900 x 450 mm GI frame and top cover of 75 kg. in CC 1:2:4 bed of 75 mm thick. etc. complete	NOS	904.02	1034.15	14.39
79.1	17.53.1	T190C	Providing and fixing 450 x 450 mm GI frame and top cover of 38 kg. in CC 1:2:4 bed of 75 mm thick. etc. complete	NOS	519.01	942.29	81.56
79.2	17.53.2	T190D	Providing and fixing 300 x 220 mm GI frame and top cover of 25 kg CC 1:2:4 bed of 75 mm thick. etc. complete	NOS	386.90	886.44	129.11
79.3	17.53.3	T190E	Providing and fixing 220 x 150 mm GI frame and top cover of 17 kg. in CC 1:2:4 bed of 75 mm thick. etc. complete	NOS	206.66	681.93	229.98
80	17.68	T190F	Conveying MS tank of 1800 ltr capacity from departmental store and fixing at 12.2 Mtr high with necessary scaffoldings.	NOS	479.38	577.83	20.54
80.1	17.68.1	T190G	Conveying MS tank of 900 ltr capacity from departmental store and fixing at 12.2 Mtr high with necessary scaffoldings.	NOS	362.36	496.93	37.14

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
81.	17.59	T200A	Provide soakage drains with 100 mm dia. S.W pipe with loose joints and covering with 50 mm thick granite jelly around.	RMT	64.00	208.49	225.77
82.	17.74	T200B	Cutting 100 mm S.W pipe line and making 150 mm S.W collar joints as per specifications, including necessary earth work and making good etc. complete.	NOS	92.00	243.56	164.74
83.	17.75	T200C	Cutting 150 mm S.W pipe line and making 230 mm S.W collar joints as per specifications, including necessary earth work and making good etc. complete.	NOS	176.00	278.69	58.35
84.	17.60.	T210A	Providing and fixing screw cap to lead bends with wiped solder joints.	NOS	90.00	89.76	-0.27
84.1	17.60.1	T210B	Providing wiped solder joints of 100 mm dia. lead pipe	NOS	155.00	154.84	-0.10
84.2	17.60.2	T210C	Providing wiped solder joints of 75 mm dia. lead pipe	NOS	45.00	46.00	2.22
84.3	17.60.3	T210D	Providing wiped solder joints of 50 mm dia. lead pipe	NOS	40.00	40.39	0.98
85	17.61	T210E	Benching lead pipe 100 mm dia. with wiped solder joint.	NOS	141.00	145.86	3.45
85.1	17.61.1	T210F	Benching lead pipe 75 mm dia. with wiped solder joint.	NOS	59.00	60.59	2.69
85.2	17.61.2	T210G	Benching lead pipe 50 mm dia. with wiped solder joint.	NOS	32.00	32.54	1.69
86	17.62	T220A	Making lead socket in 100 mm and 75 mm lead pipe with brass tumbler.	NOS	321.00	325.38	1.36
87.	17.64	T220B	Fixing cornice tiles and bends wherever necessary in CM 1:3 and white CM pointing.	NOS	10.69	21.86	104.49
88.	17.65	T220C	Constructing ground sink 1.22 x 1.22 x 0.75 M size with 75 mm thick cement concrete 1:2:4 and plastering with CM 1:3, 12 mm thick and finishing with redoxide etc. complete.	NOS	193.00	192.98	-0.01
89.	17.66	T220E	Fixing 15 mm to 20 mm lead pipes	NOS	21.98	40.02	82.07
89.1	17.66.1	T220F	Fixing 32 mm to 50 mm lead pipes	NOS	34.80	64.65	85.78
90	17.67	T220G	Fixing stop cocks or bib cocks of 50 mm to 20 mm sizes, including necessary tools, preparation, conyance, loading and unloading etc.	NOS	30.64	60.71	98.14
91.	17.72	T220H	Drilling holes of desired sizes in 25 mm and 20 mm dia. CI pipes for the formation of spray fountain.	NOS	71.00	93.90	32.25
92.	17.73	T220I	Cutting concrete flooring for laying pipes and re-doing with cement concrete 1:2:4 and finish similar colour finishing item after laying pipes.	RMT	16.00	63.08	294.25

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
93.	17.76	T220J	Cutting the concrete for benching of the manholes or inspection chamber and making drain with cement concrete 1:2:4 and CM 1:3 plaster etc. as per design.	NOS	77.00	124.79	62.06
94.	17.78	T220K	Cutting and grooving in lintels and basement slabs for fixing pipes and re-doing with CM 1:3 and stone STUCCO FINISH after fixing the pipes.	RMT	56.00	124.79	122.84
95.	17.81	T220L	Removing manhole cover and frame and refixing the same in CC 1:2:4 band around and finishing	NOS	127.00	164.10	29.21
96.	17.82	T220M	Conveying the new CI or RCC manhole frame and cover of 2 CMTS from divisional stores to the workspot within the corporation limits and fixing the same in cement concrete and removing the old frame and cover and conveying back the old ones to stores.	SET	180.00	208.82	16.01
97.	NEW	T220N	Soldering and fixing the copper ball valve set.	EACH	0.00	40.39	NIL
98.	NEW	T220O	Providing 10.16 cms clear white vitreous china clay traps including, fixing in cement concrete (1:2:3) and constructing cistern 15.24 cms with up grating	EACH	0.00	252.45	NIL
99.	NEW	T220P	Providing Nahani traps 15.24°7.62 cms and constructing cistern in cement concrete (1:2:3) including fixing trap etc.,	EACH	0.00	173.91	NIL
100	NEW	T220Q	Constructing cistern with burnt brick in C.M(1.4) and C.M(1.3) plastered on a bed of 7.62 cms. thick (1:3:6) cement concrete and providing and fixing 15.24 cms C.I grating (size of cistern 30.48°30.48 cms inside measurements.)	EACH	0.00	71.81	NIL
101.	0	T300	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using sulphate resistant cement, conical in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M around the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the conical surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910).				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			The footsteps shall be fixed 30cms apart and on CC block embedded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner conical surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for:				
101.1	17.83.1.1	T300A	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.0 M depth & SFRC cover & frame	NOS	15509.95	18382.49	18.52
101.2	17.83.1.2	T300B	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.1 M depth & SFRC cover & frame	NOS	16657.39	19602.78	17.68
101.3	17.83.1.3	T300C	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.2 M depth & SFRC cover & frame	NOS	17804.99	20697.47	16.25
101.4	17.83.1.4	T300D	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.3 M depth & SFRC cover & frame	NOS	18953.00	22136.40	16.80
101.5	17.83.1.5	T300E	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.4M depth & SFRC cover & frame	NOS	20095.63	23103.65	14.97
101.6	17.83.1.6	T300F	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.5M depth & SFRC cover & frame	NOS	21242.24	24252.54	14.17
101.7	17.83.1.7	T300G	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.6M depth & SFRC cover & frame	NOS	22402.75	25733.70	14.87
101.8	17.83.1.8	T300H	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.7M depth & SFRC cover & frame	NOS	23539.16	26478.94	12.49
101.9	17.83.1.9	T300I	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.8M depth & SFRC cover & frame	NOS	24682.38	27736.23	12.37
101.10	17.83.1.10	T300J	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. , 1.9M depth & SFRC cover & frame	NOS	25848.03	29464.84	13.99
101.11	17.83.1.11	T300M	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. & 2.0 M depth includ. SFRC F&C	NOS	27004.85	30794.79	14.03
101.12	17.83.1.12	T300N	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. & 3.0 M depth includ. SFRC F&C	NOS	41541.80	44961.39	8.23

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
102.	new	T3000	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. & 4.0 M depth includ. SFRC F&C	NOS	0.00	59371.69	NIL
103.	new	T300P	Constructing Brick Masonry Circular Manholes 1.2 m internal dia. & 5.0 M depth includ. SFRC F&C	NOS	0.00	79458.10	NIL
104.	17.83.2	T310	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using sulphate resistant cement, conical in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M around the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the conical surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910). The footsteps shall be fixed 30cms apart and on CC block embeded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner conical surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for: .				
104.1	17.83.2.1	T310A	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 1.0 M depth includ. SFRC F&C	NOS	18698.76	22265.69	19.08
104.2	17.83.2.2	T310B	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 2.0 M depth includ. SFRC F&C	NOS	33858.29	36923.14	9.05
104.3	17.83.2.3	T310C	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 3.0 M depth includ. SFRC F&C	NOS	51370.06	53134.88	3.44
104.4	17.83.2.4	T310D	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 4.0 M depth includ. SFRC F&C	NOS	72138.67	69725.57	-3.35

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
104.5	17.83.2.5	T310E	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 5.0 M depth includ. SFRC F&C	NOS	99423.03	91109.01	-8.36
104.6	17.83.2.6	T310F	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 6.0 M depth includ. SFRC F&C	NOS	122427.82	113165.63	-7.57
104.7	17.83.2.7	T310G	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 7.0 M depth includ. SFRC F&C	NOS	152338.78	140047.03	-8.07
104.8	17.83.2.8	T310H	Constructing Brick Masonry Circular Manholes 1.5 m internal dia. & 8.0 M depth includ. SFRC F&C	NOS	181950.99	167950.71	-7.69
105.	17.83.3	T320	Providing and constructing "WIRE CUT BRICK MANHOLE CHAMBERS" using sulphate resistant cement, conical in shape at top, with CC 1:3:6 foundation using 40 mm and down size graded metal of approved quality and with an offset of 0.15M around the chamber. Construct Brick masonry in CM 1:4, 340 mm thick, with wirecut bricks of approved quality, plaster inside and out side with CM 1:3, 12 mm thick, except for the conical surface outside where the plaster thickness shall be 20 mm. Slope inside to be 1:6 in the concrete towards central drain and finished smooth. Fixing of pipes in CC 1:2:4 with graded metal of 20 mm and down size. Supplying and fixing SFRC manhole frame and cover conforming to IS:12592 with latest amendment, in CC 1:2:4. Supplying and fixing footsteps made of 12 mm dia. steel bars (Fe-415) with 3 mm thick plastic encapsulation (IS-10910). The footsteps shall be fixed 30cms apart and on CC block embeded to masonry wall. The whole works include excavation in all types of soils, watering, curing, barricading, danger lighting, pouring tar over MH frame and cover, cost of tar, shoring, strutting, de-watering, engraving manhole number with flow direction on the inner conical surface etc. as per the drawing etc. as per technical specifications and for the following diameters and depth etc. for:				
105.1	17.83.3.1	T320A	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 3.0 M depth includ. SFRC F&C	NOS	59143.51	62383.28	5.48
105.2	17.83.3.2	T320B	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 4.0 M depth includ. SFRC F&C	NOS	77197.76	81628.83	5.74

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
105.3	17.83.3.3	T320C	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 5.0 M depth includ. SFRC F&C	NOS	101534.36	102298.76	0.75
105.4	17.83.3.4	T320D	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 6.0 M depth includ. SFRC F&C	NOS	127997.33	127886.22	-0.09
105.5	17.83.3.5	T320E	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 7.0 M depth includ. SFRC F&C	NOS	162120.48	159916.01	-1.36
105.6	17.83.3.6	T320F	Constructing Brick Masonry Circular Manholes 1.8 m internal dia. & 8.0 M depth includ. SFRC F&C	NOS	194610.28	187732.87	-3.53
106.	17.84.1	T330	Construction of RCC manhole chambers of 1:1.5:3 proportion or approved type pre-cast RCC manhole chambers, constructed using form vibrators of standard type, with barricading, danger lighting and using of sight rails and boning rods wherever necessary, shoring and strutting wherever required using Ordinary Port Land Cement, using 1:1.5:3 proportion RCC with 20 mm and down graded jelly, well graded sand and steel of approved quality, 200 mm thick top concrete slab, having wall thickness and raft thickness as in approved drawings and with an offset in raft around the chamber as in approved drawing, benching concrete with 1:6 slope towards the central drain finished smooth, including fixing and grouting of pipes, including conveying to work spot supply and fixing SFRC manhole cover and frame (Heavy duty) conforming to IS:12592 with latest amendments, on a bed of CC 1:2:4 supplying and fixing of minimum 3 mm thick encapsulated plastic footsteps (as per IS 10910) on 12 mm dia. Grade Fe-415 steel bar (as per IS 1786) staggered at 300 mm apart as detailed in Technical specifications, including sand bedding wherever required, disposal of surplus earth, watering, curing, engraving manhole number with flow direction on the inner cylindrical surface etc., complete including cost of reinforcement steel and fabrication charges and also cost and conveyance of all materials, labour with all lead and lifts. The Pre-cast RCC manholes are for various diameters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.				
106.1	17.84.1.1	T330A	Constructing Pre-cast RCC Manholes 1.2 m internal dia. , 1.0 M depth & SFRC cover & frame	NOS	36802.46	30959.91	-15.88

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
106.2	17.84.1.4	T330D	Constructing Pre-cast RCC Manholes 1.2 m internal dia. , 1.3 M depth & SFRC cover & frame	NOS	40726.02	36363.66	-10.71
106.3	17.84.1.7	T330G	Constructing Pre-cast RCC Manholes 1.2 m internal dia. , 1.6 M depth & SFRC cover & frame	NOS	44772.65	41305.98	-7.74
106.4	17.84.1.10	T330J	Constructing Pre-cast RCC Manholes 1.2 m internal dia. , 1.9M depth & SFRC cover & frame	NOS	48728.37	46074.15	-5.45
106.5	17.84.1.11	T330K	Constructing Pre-cast RCC Manholes 1.2 m internal dia. , 2.0M depth & SFRC cover & frame	NOS	50415.28	47372.52	-6.04
106.6	17.84.1.12	T330L	Constructing Pre-cast RCC Manholes 1.2 m internal dia. ,3.0M depth & SFRC cover & frame	NOS	64315.29	63887.74	-0.66
107.	17.84.2	T340	Construction of PRE-CAST RCC MANHOLE CHAMBERS of 1:1.5:3 proportion with ordinary port land cement, 20 mm and down size graded jelly, well graded sand, steel of approved quality and size, constructed using form vibrators of standard type. The top cover to be 200 mm thick concrete slab, wall thickness, raft thickness, offset in raft around the chamber etc. as per the approved drawing. Benching concrete with 1:6 slope towards the central drain, finished smooth, fixing and grouting pipes. Supply and fixing SFRC manhole cover and frame (heavy duty) conforming to IS:12592 with latest amendments, on CC 1:2:4 bed, including necessary conveyance. Supply and fixing footsteps (as per IS 10910) with 12 mm dia. steel bar (Fe-415), encapsuled in 3 mm thick plastic, fixed with CC block to the walls staggered at 300 mm etc. as detailed in Technical Specifications. The whole works includes sand bedding wherever necessary, disposal of surplus earth, barricading, danger lighting, sight rails, boning rods, shoring, strutting, waterig, curing, engraving manhole number with flow direction on the inner cylindrical surface etc. The cost to include the cost of reinforcement steel, its fabrication charges, cost and conveyances of all materials, labour, all leads and lifts. The Pre-cast RCC manholes are for various diamters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.				
107.1	17.84.2.1	T340A	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 1.0 M depth & SFRC cover & frame	NOS	47782.62	40166.78	-15.94
107.2	17.84.2.2	T340B	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 2.0 M depth & SFRC cover & frame	NOS	65668.39	60074.46	-8.52
107.3	17.84.2.3	T340C	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 3.0 M depth & SFRC cover & frame	NOS	80559.56	79377.69	-1.47

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
107.4	17.84.2.4	T340D	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 4.0 M depth & SFRC cover & frame	NOS	97065.20	99104.62	2.10
107.5	17.84.2.5	T340E	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 5.0 M depth & SFRC cover & frame	NOS	120497.41	119501.89	-0.83
107.6	17.84.2.6	T340F	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 6.0 M depth & SFRC cover & frame	NOS	137619.21	140508.46	2.10
107.7	17.84.2.7	T340G	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 7.0 M depth & SFRC cover & frame	NOS	153960.34	161767.92	5.07
107.8	17.84.2.8	T340H	Constructing Pre-cast RCC Manholes 1.5 m internal dia. , 8.0 M depth & SFRC cover & frame	NOS	17026.66	182655.42	972.76
108.	17.84.3	T350	Construction of PRE-CAST RCC MANHOLE CHAMBERS of 1:1.5:3 proportion with ordinary port land cement, 20 mm and down size graded jelly, well graded sand, steel of approved quality and size, constructed using form vibrators of standard type. The top cover to be 200 mm thick concrete slab, wall thickness, raft thickness, offset in raft around the chamber etc. as per the approved drawing. Benching concrete with 1:6 slope towards the central drain, finished smooth, fixing and grouting pipes. Supply and fixing SFRC manhole cover and frame (heavy duty) conforming to IS:12592 with latest amendments, on CC 1:2:4 bed, including necessary conveyance. Supply and fixing footsteps (as per IS 10910) with 12 mm dia. steel bar (Fe-415), encapsuled in 3 mm thick plastic, fixed with CC block to the walls staggered at 300 mm etc. as detailed in Technical Specifications. The whole works includes sand bedding wherever necessary, disposal of surplus earth, barricading, danger lighting, sight rails, boning rods, shoring, strutting, waterig, curing, engraving manhole number with flow direction on the inner cylindrical surface etc. The cost to include the cost of reinforcement steel, its fabrication charges, cost and conveyances of all materials, labour, all leads and lifts. The Pre-cast RCC manholes are for various diamters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.				
108.1	17.84.3.1	T350A	Constructing Pre-cast RCC Manholes 1.8 m internal dia. , 1.0 M depth & SFRC cover & frame	NOS	59951.98	58475.21	-2.46
108.2	17.84.3.2	T350B	Constructing Pre-cast RCC Manholes 1.8 m internal dia. , 2.0 M depth & SFRC cover & frame	NOS	79750.65	86073.68	7.93
108.3	17.84.3.3	T350C	Constructing Pre-cast RCC Manholes 1.8 m internal dia. , 3.0 M depth & SFRC cover & frame	NOS	98914.82	112666.97	13.90

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
108.4	17.84.3.4	T350D	Constructing Pre-cast RCC Manholes 1.8 m internal dia. , 4.0 M depth & SFRC cover & frame	NOS	118727.13	141009.03	18.77
108.5	17.84.3.5	T350E	Constructing Pre-cast RCC Manholes 1.8 m internal dia. ,5.0 M depth & SFRC cover & frame	NOS	146460.67	169558.21	15.77
108.6	17.84.3.6	T350F	Constructing Pre-cast RCC Manholes 1.8 m internal dia. ,6.0 M depth & SFRC cover & frame	NOS	166248.67	198364.71	19.32
108.7	17.84.3.7	T350G	Constructing Pre-cast RCC Manholes 1.8 m internal dia. ,7.0 M depth & SFRC cover & frame	NOS	185308.46	227397.99	22.71
108.8	17.84.3.8	T350H	Constructing Pre-cast RCC Manholes 1.8 m internal dia. ,8.0 M depth & SFRC cover & frame	NOS	205096.55	256725.64	25.17
109.	17.84.4	T360	Construction of PRE-CAST RCC MANHOLE CHAMBERS of 1:1.5:3 proportion with ordinary port land cement, 20 mm and down size graded jelly, well graded sand, steel of approved quality and size, constructed using form vibrators of standard type. The top cover to be 200 mm thick concrete slab, wall thickness, raft thickness, offset in raft around the chamber etc. as per the approved drawing. Benching concrete with 1:6 slope towards the central drain, finished smooth, fixing and grouting pipes. Supply and fixing SFRC manhole cover and frame (heavy duty) conforming to IS:12592 with latest amendments, on CC 1:2:4 bed, including necessary conveyance. Supply and fixing footsteps (as per IS 10910) with 12 mm dia. steel bar (Fe-415), encapsuled in 3 mm thick plastic, fixed with CC block to the walls staggered at 300 mm etc. as detailed in Technical Specifications. The whole works includes sand bedding wherever necessary, disposal of surplus earth, barricading, danger lighting, sight rails, boning rods, shoring, strutting, waterig, curing, engraving manhole number with flow direction on the inner cylindrical surface etc. The cost to include the cost of reinforcement steel, its fabrication charges, cost and conveyances of all materials, labour, all leads and lifts. The Pre-cast RCC manholes are for various diamters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.				
109.1	17.84.4.1	T360C	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 3.0 M depth & SFRC cover & frame	NOS	139048.65	163242.58	17.40
109.2	17.84.4.2	T360D	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 4.0 M depth & SFRC cover & frame	NOS	164239.95	202165.05	23.09
109.3	17.84.4.3	T360E	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 5.0 M depth & SFRC cover & frame	NOS	202009.18	242117.76	19.85

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109.4	17.84.4.4	T360F	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 6.0 M depth & SFRC cover & frame	NOS	227090.83	282795.11	24.53
109.5	17.84.4.5	T360G	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 7.0 M depth & SFRC cover & frame	NOS	251647.80	323504.87	28.55
109.6	17.84.4.6	T360H	Constructing Pre-cast RCC Manholes 2.4 m internal dia. , 8.0 M depth & SFRC cover & frame	NOS	276825.75	365289.67	31.96
110.	17.84.5	T370	Construction of PRE-CAST RCC MANHOLE CHAMBERS of 1:1.5:3 proportion with ordinary port land cement, 20 mm and down size graded jelly, well graded sand, steel of approved quality and size, constructed using form vibrators of standard type. The top cover to be 200 mm thick concrete slab, wall thickness, raft thickness, offset in raft around the chamber etc. as per the approved drawing. Benching concrete with 1:6 slope towards the central drain, finished smooth, fixing and grouting pipes. Supply and fixing SFRC manhole cover and frame (heavy duty) conforming to IS:12592 with latest amendments, on CC 1:2:4 bed, including necessary conveyance. Supply and fixing footsteps (as per IS 10910) with 12 mm dia. steel bar (Fe-415), encapsuled in 3 mm thick plastic, fixed with CC block to the walls staggered at 300 mm etc. as detailed in Technical Specifications. The whole works includes sand bedding wherever necessary, disposal of surplus earth, barricading, danger lighting, sight rails, boning rods, shoring, strutting, waterig, curing, engraving manhole number with flow direction on the inner cylindrical surface etc. The cost to include the cost of reinforcement steel, its fabrication charges, cost and conveyances of all materials, labour, all leads and lifts. The Pre-cast RCC manholes are for various diamters and depths as stated below and as per detailed drawings, specifications and direction of the Engineer.				
110.1	17.84.5.1	T370A	Constructing Pre-cast RCC Manholes 3.0 m internal dia. , 4.0 M depth & SFRC cover & frame	NOS	232941.45	283462.79	21.69
110.2	17.84.5.2	T370B	Constructing Pre-cast RCC Manholes 3.0 m internal dia. , 5.0 M depth & SFRC cover & frame	NOS	263661.58	289464.35	9.79
110.3	17.84.5.3	T370C	Constructing Pre-cast RCC Manholes 3.0 m internal dia. , 6.0 M depth & SFRC cover & frame	NOS	294234.43	395908.86	34.56
110.4	17.84.5.4	T370D	Constructing Pre-cast RCC Manholes 3.0 m internal dia. , 7.0 M depth & SFRC cover & frame	NOS	324881.74	453414.78	39.56
110.5	17.84.5.5	T370E	Constructing Pre-cast RCC Manholes 3.0 m internal dia. , 8.0 M depth & SFRC cover & frame	NOS	355522.69	511704.53	43.93

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
111.	17.85	T380A	Supply and fixing of SFRC manhole rings and cover (Heavy Duty) made as per IS to suit existing damaged manholes after removing the debries from inside and outside the existing manhole etc. with all lead and lifts.	NOS	1111.24	1131.69	1.84
112.	17.86	T380B	Supply and fixing of SFRC manhole cover (Heavy Duty) made as per IS to suit existing damaged manholes cover after removing the debries from inside and outside the existing manhole etc. with all lead and lifts.	NOS	616.27	613.08	-0.52
113.	17.87	T390	Providing, supplying and fixing of polyethylene including HDPE manhole with corrugated ribs of 1200 mm internal diameter consisting of manhole base, shaft eccentric cone with ladder and SFRC frame and cover at the top as per loading conditions with reinforced precast concrete (M-25) slab with 600 mm opening in center as per drawing. The manhole should be prefabricated with minimum density of 920 kg/cum material and shall meet relevant Indian and European Norms and specifications. The manhole shall be made of single wall of 10 mm or greater thickness, for more than 2.0 mtr depth with increase of 2 mm thick for every metre there after Construction made of 100% virgin PE material without recycling or foam content. The manhole shall have inlet and outlet as per site requirement with inbuilt P E steps, including pre-fabricated benching and channelling. The work shall include excavation in all kinds of soils, dewatering, shoring, strutting removing the hedges, fence and walls, diverting water course, disposing off excess materials away from the site work etc., complete wherever necessary as per the directions of the engineer. The base of manhole should be installed with bedding of sand or quarry dust of 40 mm depth and on M-10 concrete (1:3:6) of 200 mm depth to correct level. It should be properly, aligned and apply lubricant, make connection with pipe and accessories by pushing the base to the spigot. Shaft can be increased or cut as per the site requirements.				
			The rubber ring sealing for the base/ shaft connection must be placed between the top two ribs of the base. Apply lubricant evenly on the rubber seal around the base uniformly for full insertion. Cone should be in right or central position and install the cone by pushing it evenly on shaft. Back filling the surroundings with suitable granular material and ensure proper				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			compaction. Then the reinforced concrete slab to be installed at top with GRP cover and lid. In order to safeguard against uplift pressure manhole should have solid horizontal reinforcement ribs of appropriate thickness and width. These ribs should be strategically placed at regular intervals all along the outside of the shaft of the manhole. During installation, special care must be taken to ensure proper compaction of the excavated earth with proctor density of 95%, below and around the manhole, suitably anchored over concrete to take traffic load without settlement				
113.1	17.87.1	T390A	HDPE manholes of 1200 mm dia and upto 1.0 m height	NOS	0.00	21850.00	NIL
113.2	17.87.2	T390B	HDPE manholes of 1200 mm dia and 1.0 m to 2.0 m height	NOS	0.00	32544.98	NIL
113.3	17.87.3	T390C	HDPE manholes of 1200 mm dia and 2.0 m to 3.0 m height	NOS	0.00	51833.75	NIL
113.4	17.87.4	T390D	HDPE manholes of 1200 mm dia and 3.0 m to 4.0 m height	NOS	0.00	78954.24	NIL
113.5	17.87.5	T390E	HDPE manholes of 1200 mm dia and 4.0 m to 5.0 m height	NOS	0.00	94208.62	NIL
113.6	17.87.6	T390F	HDPE manholes of 1200 mm dia and 5.0 m to 6.0 m height	NOS	0.00	107619.94	NIL
114.	OLD	T400	Providing , supplying and fixing of polyethylene manhole with corrugated ribs of 1200/1250 mm internal diameter consisting of manhole base, shaft eccentric cone with ladder and SFRC frame and cover at the top as per loading condition with reinforced precast concrete slab with 600 mm opening in center at the top with concrete grade M-20 as per drawing. The manhole should be prefabricated with minimum density of 920 kg/ cum material shall be meet relevant EUROPEAN NORMS specification. The manhole shall be made of single wall of 10 mm or greater thickness and construction made of 100% virgin PE material without recycling or foam content. The item shall also include supplying, transporting, loading, unloading at the site. The manhole shall have inlet and outlet as per site requirement with inbuilt P.E steps. The work shall include excavation of soils in all kinds of nature soil, dewatering, shoring, strutting removing the hedges, fence and walls, diverting water course, disposing off excess materials away from the site work etc. complete wherever necessary as per specifications identified and approved by engineer.				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% increas. / decres.
			Excavation has to be done for foundation/pipe trench in earth, soils of all type, sand granule and soft murmur including removing the excavated material upon a distance of required length. The base of manhole should be installed with bedding of M- 10 concrete (1:3:6) of 200 mm depth. Further place the manhole base in position adjust the base to the correct level. It should be properly, aligned and apply lubricant make connection with pipe and accessories by pushing the base to the spigot. Shaft can be increased or cut as per the site requirement. The rubber ring sealing for the base/shaft connection must be placed between the top two ribs of the base. Apply lubricant evenly on the rubber seal around the base uniformly for full insertion. Cone should be in right position and install the cone by pushing it evenly on shaft. Back filling the surroundings with suitable granular material for every 30 cm and ensure proper compaction. Then the reinforced concrete slab to be installed at top with GRP cover and lid.				
114.1	OLD	T400A	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for upto 1.0 m height	NOS	38057.55	43626.58	14.63
114.2	OLD	T400B	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for 1 to 2 m height	NOS	54261.16	61769.41	13.84
114.3	OLD	T400C	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for 2 to 3m height	NOS	67725.76	77215.71	14.01
114.4	OLD	T400D	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for 3 to 4m height	NOS	81183.60	92677.51	14.16
114.5	OLD	T400E	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for 4 to 5m height	NOS	90197.19	103175.84	14.39
114.6	OLD	T400F	With chamber base, cone, shaft, SFRC cover, PCC ring, excavation and filling etc. for 5 to 6m height	NOS	0.00	114711.78	NIL
115.	17.89	T410	Supplying MANHOLES OF HEAVY DUTY made from selected grades of GLASS FIBRE conforming to E class and as per ASTM standard D-3753 and made from polyester unsaturated isothalic resin along with suitable extenders (fillers) such as silica sand of the quality having resistance to hydrogen sulphide gas in the size of 6 feet having 600 mm top opening by the process of finite chop whoop method and in thickness of 7 mm to 12 mm having weight of around 100 kg to 700 kg in clour of pale white suitable for underground installation up to a depth of 12.8 M in the area of high water table also. Manholes having bearing capacity of axle load of 20 ton having				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			ladder inbuilt for height over 5 feet including all taxes, duties, carriage etc. as per the direction of the Engineer in charge depending on the site condition. Providing and supplying at store or site of work including freight, loading, unloading, stacking, installation charges etc. complete. The Rate of the manhole is inclusive of the cost of manhole frame and cover. INSTALLATION WORK: The installation charge is Rs.3000/- per manhole and this include cutting of manhole pipe on both sides and applying special resin and glass fibre to get leak proof joint. THE TOTAL WORK INCLUDES: (1). Necessary erection work including loading and unloading from truck, (2). Lowering the manhole to the pit, (3). Necessary excavation, benching, grouting, back filling (4). 150 mm thick PCC at base of pit, PCC ring upto full height of manhole, (5). Brick masonry, 200 mm thick RCC slab of M-20 required upto plinth level.				
115.1	17.89.1	T410A	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 1.0 m height	NOS	0.00	34317.35	NIL
115.2	17.89.2	T410B	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 2.0 m height	NOS	0.00	45891.79	NIL
115.3	17.89.3	T410C	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 3.0 m height	NOS	0.00	60544.40	NIL
115.4	17.89.4	T410D	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 4.0 m height	NOS	0.00	75959.71	NIL
115.5	17.89.5	T410E	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 5.0 m height	NOS	0.00	93619.02	NIL
115.6	17.89.6	T410F	FRP Manholes includ. frame & cover etc. for 1.25 m dia and 6.0 m height	NOS	0.00	116888.33	NIL
116.	17.90.	T420	Providing / supplying, erecting, installing in a complete manner at site, over a bed of CC 1:3:6 of thickness 15 cms, 1200 mm dia. GRP manholes of entire monolithic including dish, wall, bottom single wall type prefabricated made of GRP materials shall meet relevant BIS / ASTM standards and specifications. Manhole shall be of single wall of 7 / 10 mm or greater thickness and construction made of 100% virgin GRP materials without re-cycling or foarm content. The pipes to be connected with elastomer seal for a flexible connection of pipes. Manholes shall have corrosion-resistant steps, vertical step distances 25 cms. centre to centre. In order				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			to safeguard against uplift pressure, manholes should have solid horizontal reinforcement ribs of appropriate thickness and width. These ribs should be strategically placed all along the outside of the shaft of the manhole. Manholes shall have dummy flanged openings of minimum 6 numbers at different angles for House Service Connections (HSC). In order to protect the manhole in traffic areas, a reinforced concrete load distribution ring should be placed around the neck of the manhole on which SFRC cover and frame should be placed and fixed on a bed of CC 1:2:4 and finished smoothly. During installation, special care must be taken to ensure proper compaction of the excavated earth with proctor density of 95% below and around the manhole. The manhole shall have straight channel of dia. 200 mm and above as per requirements and site conditions with four extra inlets of various dia at 45 degree and 90 degree with right / left bends. Work includes excavation in all kinds of native soil, with de-watering, backfilling etc., complete as per instructions of the Engineer in charge. The rates shall include transportation, leads, lifts, loading, unloading of all materials including SFRC rings and covers. The rate is inclusive of the cost of manhole frame and cover.				
116.1	17.90.1	T420A	For GRP monolithic manholes of 1.2M dia, upto 1.0 m depth includ. SFRC ring & cover	NOS	0.00	34201.78	NIL
116.2	17.90.2	T420B	For GRP monolithic manholes of 1.2M dia, 1 - 2 m depth includ. SFRC ring & cover	NOS	0.00	46251.09	NIL
116.3	17.90.3	T420C	For GRP monolithic manholes of 1.2M dia, 2 - 3m depth includ. SFRC ring & cover	NOS	0.00	60544.40	NIL
116.4	17.90.4	T420D	For GRP monolithic manholes of 1.2M dia, 3 - 4m depth includ. SFRC ring & cover	NOS	0.00	75959.71	NIL
116.5	17.90.5	T420E	For GRP monolithic manholes of 1.2M dia, 4 - 5m depth includ. SFRC ring & cover	NOS	0.00	93619.02	NIL
116.6	17.90.6	T420F	For GRP monolithic manholes of 1.2M dia, 5 - 6m depth includ. SFRC ring & cover	NOS	0.00	116888.33	NIL
117.	17.91	T430	Providing, erecting and installing 1.2mtr dia at bottom, 0.6mtr at the top, conical in shape with GRP vinylster double wall entire Monolithic manhole including dish wall, bottom and prefabricated type made of GRP material shall meet relevant BIS/ASTM standards and specification. Manhole shall be of double wall with each wall thickness of 6 mm or greater and construction shall be made of 100% virgin GRP				

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			material without recycling or foam content. The clear gap of 100 mm between the two walls shall be filled with CC 1:3:6 using 20 mm and down size jelly. The GRP manhole shall be fitted to 150 mm thick bed concrete of CC 1:4:8 with m25x100 mm dia anchor bolts of minimum 4 nos at the bottom. Manhole shall have corrosion resistant steps, vertical steps with distance 25c.m. C/C. In order to safeguard against uplift pressure, manholes should have solid horizontal reinforcement ribs of appropriate thickness and width. These ribs should be strategically placed at 600 mm C/C all along the outside of the shaft of the manhole. Manholes shall have dummy flanged openings of minimum 6 nos at different angles to provide house service connection (HSC). The manhole rings and covers shall be of GRP (Heavy duty) material. The lid assembly shall have arrangements to lift with hinges fixed with duly grouted bolts. The neck portion of the manhole shall be embedded in CC 1:3:6 of 450 mm thick. During installation special care must be taken to ensure proper compaction of the excavation earth with proctor density of 95% below and around the manhole. Work includes excavation in all kinds of native soil with dewatering, refilling etc., complete as per instructions of engineer in-charge. The rates shall include transportation, lead, lifts, loading, unloading of all the materials including SFRC rings and covers. The rates for various depths of manholes are as below :				
117.1	17.91.1	T430A	For GRP double wall monolithic MH as per spec, for 1.2 m dia. and 1.0 m depth + SFRC F&C	NOS	0.00	60043.37	NIL
117.2	17.91.2	T430B	For GRP double wall monolithic MH as per spec, for 1.2 m dia. and 2.0 m depth + SFRC F&C	NOS	0.00	75397.52	NIL
117.3	17.91.3	T430C	For GRP double wall monolithic MH as per spec, for 1.2 m dia. and 3.0 m depth + SFRC F&C	NOS	0.00	80653.67	NIL
117.4	17.91.4	T430D	For GRP double wall monolithic MH as per spec, for 1.2 m dia. and above 3.0 m depth + SFRC F&C	NOS	0.00	92641.82	NIL
118.	17.92.1	T440	Dismantling the damaged or collapsed manholes of 1.2M dia., conical in shape, and reconstructing the same for the same dimensions, with machine made wire cut brick in CM 1:4 with ordinary portland cement etc. as per design and specifications. The existing ring, cover and CC bedding to be used.				
118.1	17.92.1.1	T440A	For manholes of 1.2M dia and 1.0 M depth	NOS	7196.00	12694.40	76.41
118.2	17.92.1.2	T440B	For manholes of 1.2M dia and 2.0 M depth	NOS	14538.89	21050.56	44.79
118.3	17.92.1.3	T440C	For manholes of 1.2M dia and 3.0 M depth	NOS	24281.33	32923.63	35.59

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
119.	17.92.2	T450	Dismantling the damaged or collapsed manholes of 1.5M dia., conical in shape, and reconstructing the same for the same dimensions, with machine made wire cut brick in CM 1:4 with ordinary portland cement etc. as per design and specifications. The existing ring, cover and CC bedding to be used.				
119.1	17.92.2.1	T450A	For manholes of 1.5M dia and 1.0 M depth	NOS	7895.09	16231.30	105.59
119.2	17.92.2.2	T450B	For manholes of 1.5M dia and 2.0 M depth	NOS	18434.12	29077.59	57.74
119.3	17.92.2.3	T450C	For manholes of 1.5M dia and 3.0 M depth	NOS	29330.19	43098.07	46.94
119.4	17.92.2.4	T450D	For manholes of 1.5M dia and 4.0 M depth	NOS	41962.84	57038.51	35.93
119.5	17.92.2.5	T450E	For manholes of 1.5M dia and 5.0 M depth	NOS	56443.56	71320.12	26.36
119.6	17.92.2.6	T450F	For manholes of 1.5M dia and 6.0 M depth	NOS	71614.71	84484.77	17.97
120.	17.92.3.	T460	Dismantling the damaged or collapsed manholes of 1.8M dia., conical in shape, and reconstructing the same for the same dimensions, with machine made wire cut brick in CM 1:4 with ordinary portland cement etc. as per design and specifications. The existing ring, cover and CC bedding to be used.				
120.1	17.92.3.1	T460A	For manholes of 1.8M dia and 3.0 M depth	NOS	30374.66	49635.46	63.41
120.2	17.92.3.2	T460B	For manholes of 1.8M dia and 4.0 M depth	NOS	43523.17	65248.22	49.92
120.3	17.92.3.3	T460C	For manholes of 1.8M dia and 5.0 M depth	NOS	57323.50	81272.74	41.78
120.4	17.92.3.4	T460D	For manholes of 1.8M dia and 6.0 M depth	NOS	75480.55	95428.97	26.43
121.	17.98	T465	Providing and fixing DROP ARRANGEMENT with following dia. HDPE grade PE-100 pipes, conforming to PN 6 as per IS 4984-1995 with latest amendments, vertical drop pipe with MS fastenings at 300 mm C/C, with suitable expander/reducure HDPE 'T' joint at top with incoming sewer with one end of Tee inside the manhole closed with end cap and 45 degree bend at the bottom with HDPE specials and encasing the pipe outside the manhole with cement concrete 1:2:4 proportion, 150 / 200 mm thick around the HDPE pipe, including vibrating, compacting, necessary centering and form work, curing, testing etc. including cost and conveyance of all materials, labour with all lead and lifts etc. complete as per specification, drawings and as directed by the Engineer in charge etc. for:				
121.1	17.98.1	T465A	For 150 to 200 mm dia. incoming sewer pipe.	RMT	4279.00	4235.55	-1.02
121.2	17.98.2	T465B	For 250 mm dia. incoming sewer pipe.	RMT	6618.00	6619.80	0.03
121.3	17.98.3	T465C	For 300 mm dia. incoming sewer pipe.	RMT	10107.00	10154.10	0.47
121.4	17.98.4	T465D	For 350 mm to 500 mm dia. incoming sewer pipe.	RMT	15864.00	15820.20	-0.28
121.5	17.98.5	T465E	For 600 mm to 750 mm dia. incoming sewer pipe.	RMT	31850.00	31752.60	-0.31

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
121.6	17.98.6	T465F	For 800 mm to 900 mm dia. incoming sewer pipe.	RMT	48918.00	48941.64	0.05
121.7	17.98.7	T465G	For 1000 mm to 1100 mm dia. incoming sewer pipe.	RMT	72935.00	72873.90	-0.08
121.8	17.98.8	T465H	For 1200 mm to 1400 mm dia. incoming sewer pipe.	RMT	112250.00	112256.10	0.01
121.9	17.98.9	T465I	For 1500 mm to 1800 mm dia. incoming sewer pipe.	RMT	167451.00	167458.50	0.00
122.	17.93	T470	Providing and installing sheet piling for both sides of the trenches for following depths with mild steel sheets of not less than 6.5 mm thick, stronger knife edge, recessed spreader sockets, 3 inch single or double wall shields, to be designed by the contractor to withstand all types of soils, maximum depth as per the approved design drawings, including labour charges for installing and removing the sheet piling at various reaches of sewer line constructions, including loading, unloading, transporting to the suitable location etc. complete with all lead and lifts. (Measurement shall be taken for one side only eventhough it is provided for both sides).				
122.1	17.93.1	T470A	For depth upto 3.0 m	SQM	572.00	531.13	-7.15
122.2	17.93.2	T470B	For depth 3.0 m to 6m	SQM	759.00	796.70	4.97
122.3	17.93.3	T470C	For depth beyond 6 M	SQM	884.00	1062.26	20.17
123.	17.96	T475	Conducting the level and strip of SURVEY of alignment of Main sewers of required diameter including all data required for generating GIS map of sewer network, preparation and submission of plan and LS with ground level at 30 M intervals and junction points along the centre line of the alignment etc. showing the right of way, any permanent features, culverts, branch sewer pipe etc. complete as per specifications and as directed by the Engineer in charge with all lead and lifts etc. complete for::				
123.1	17.96.1	T475A	Sewer pipes upto 300 mm dia.	RMT	0.00	20.20	NIL
123.2	17.96.2	T475B	Sewer pipes above 300 mm dia.	RMT	0.00	28.05	NIL
124.	17.97	T480	Cutting of trees of the following girths, including cutting of trunks, branches and removal of stumps stacking of serviceable materials, earth filling in depressions / pits etc. including labour charges, all lead and lifts etc. All as per specifications and instructions of the Engineer in charge. MOST specification 201.				
124.1	17.97.1	T480A	For trees of 300 mm to 600 mm girth	NOS	154.00	176.46	14.58
124.2	17.97.2	T480B	For trees of 600 mm to 1200 mm girth	NOS	310.00	524.77	69.28
124.3	new	T480C	For trees of 1200 mm to 2400 mm girth	NOS	0.00	2443.90	NIL
124.4	new	T480D	For trees of girth above 2400	NOS	0.00	5933.51	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
125.	17.100.	T485	Supplying, lowering, laying, fixing, testing and commissioning of SW JUNCTION PIPES, conforming to IS: 651:1992 with latest amendments, of sizes, including conveying to work site and caulking with hemp dipped in tar cement and jointing with CM 1:1.5 with sulphate resistant cement conforming to IS - 12330 with latest revisions and amendments, perfect linking, curing and testing with water, with all lead and lifts, including cost of jointing materials etc. complete for : (Contractor will make own arrangements for procuring water for testing).				
125.1	17.100.1	T485A	SW junction pipes of 150 mm x 100 mm dia.	NOS	444.00	448.80	1.08
125.2	17.100.2	T485B	SW junction pipes of 200 mm x 100 mm dia.	NOS	607.00	605.88	-0.18
125.3	17.100.3	T485C	SW junction pipes of 225 mm x 100 mm dia.	NOS	827.00	830.28	0.40
126.	Page-96.1	T490A	Supplying and fixing of 19 mm dia. or 3/4 inch dia. THERMOPLASTIC SEWER HOSE, constructed of polyester for internal inner core, two braids of synthetic fibre reinforcing materials covered by polyesterurethane, minimum bend radius range- 125 mm. Burst pressure shall not be less than 7500 PSI (525 bar), working pressure shall not be less than 3000 PSI (210 bar). Temperature limit 40 to 60 degree centigrade, with manufacturer's test certificate confirming the above parameters with one year guarantee from the date of supply of the hose to the jetting / jetting cum suction machine inclusive of all taxes. For combined jetting / suction machine fitted in the vehicle bearing registration No.....	RMT	0.00	1290.30	NIL
127.	Page-96.2	T490B	Supplying and fixing of 25 mm dia. or 1 inch dia. THERMOPLASTIC SEWER HOSE, constructed of polyester for internal inner core, two braids of synthetic fiber reinforcing materials covered by polyesterurethane, minimum bend radius range - 160 mm. Burst pressure shall not be less than 7500 PSI (525 bar), working pressure shall not be less than 3000 PSI (210 bar). Temperature limit 40 to 60 degree centigrade, with manufacturer's test certificate confirming the above parameters with one year guarantee from the date of supply of the hose to the jetting / jetting cum suction machine inclusive of all taxes. For combined jetting / suction machine fitted in the vehicle bearing registration No.....	RMT	0.00	1564.07	NIL
128.	17.94	T500A	Providing, erecting and removing casurina pole three tier BARRICADING using poles of 7.5 to 10 cms dia. and 1.5M height above ground fixed vertically at intervals of 2.0 to 2.5 M centre to centre and horizontally at 0.5M above ground level, including fixing poles in ground	RMT	52.00	51.66	-0.65

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			for a maximum depth of 0.3M and tied with coir rope firmly including cost and conveyances of all materials, labour, lead and lifts charges etc. complete. (This item is applicable for pipe works of 600 mm dia and above pipes)				
129.	17.96	T500B	Clearing and grubbing land including uprooting rank vegetable grass, bushes, shrubs, saplings and trees upto 300 mm girth by manual means, in areas of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials from road boundary etc. including cost of labour charges, all lead and lifts, etc. complete as directed by the Engineer in charge. MOST specification number 201.	SQM	6.00	17.44	190.67
130.	17.99	T500C	Providing and fixing 150 mm dia. Cast Iron pipe for ventilating shaft 5 M high with specials and cowl and with suitable grips in CC 1:2:4 pillar using 10 mm to 20 mm graded hard granite, with 15 cms. thick cement concrete 1:2:4 around upto 1.22 M above the GLR and with a foundation base of 90 x 90 x 90 cms. plastered with 12 mm thick CM 1:3 to all exposed faces and linking the shaft to the manholes by means of 150 mm dia. GSW pipes and specials, jointing with tar dipped hemp 1:1.5 CM caulking, curing. The cost include all lead and lifts for all materials, earth work excavations and refilling in all strata, disposal of surplus earth etc. complete.	NOS	25088.00	25245.00	0.63
131.	17.101	T500D	Making bore in manholes without damaging the existing manholes, fixing the pipe of any diameter in line and level with CC 1:2:4, plastering the outer and inner surface in CM 1:3 including curing etc. using Sulphate Resistant Cement. The cost includes the cost of materials, labour charges, lead and lifts etc. complete as per specifications and as directed by the Engineer.	NOS	103.00	200.44	94.60
132.	new	T500E	Installation of steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white strips, 150 mm wide at an angle of 45 degree 'A' frame painted with 2 coats of yellow paint, etc. complete. (Cost is derived assuming 7 day usage for one time use and 40 time usage for life time) (MORTH-8.43)	SQM	0.00	15.35	NIL
133.	17.19	T500F	Providing and fixing elbow action NP tap of 15 mm dia. for wash basins etc.	SQM	353.00	359.04	1.71

CHAPTER - 21

TRENCHLESS WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	NEW	U001A	Excavation for ramming / jacking pits and receiving pit. The work includes cutting of asphalted/ concrete surface, excavation in all types of soil and strata, dewatering, disposal of debris, refiling the trenches with consolidation, restoration of road surface to normal surface by concreting/asphalting etc., complete.				
1.1	NEW	U001A	Size up to 5 mts X 3 mts - depth up to 4 mts	NOS	0.00	163929.90	NIL
1.2	NEW	U001B	For additional 1 SQM - For 4 mts depth of size 5 Mts X 3 Mts.	SQM	0.00	5464.32	NIL
1.3	NEW	U001C	size up to 5 mts X 3 mts - depth up to 5 mts	NOS	0.00	189733.58	NIL
1.4	NEW	U001D	For additional 1 SQM - For 5 mts depth of size 5 Mts X 3 Mts.	SQM	0.00	6324.44	NIL
1.5	NEW	U001E	size up to 5 mts X 3 mts - depth up to 6 mts	NOS	0.00	215537.26	NIL
1.6	NEW	U001F	For additional 1 SQM - For 6 mts depth of size 5 Mts X 3 Mts.	SQM	0.00	7184.57	NIL
1.7	NEW	U001G	size up to 5 mts X 5 mts - depth up to 5 mts	NOS	0.00	337258.31	NIL
1.8	NEW	U001H	For additional 1 SQM - For 5 mts depth of size 5 Mts X 5 Mts.	SQM	0.00	6745.17	NIL
1.9	NEW	U001I	size up to 5 mts X 5 mts - depth up to 6 mts	NOS	0.00	384595.90	NIL
1.10	NEW	U001J	For additional 1 SQM - For 6 mts depth of size 5 Mts X 5 Mts.	SQM	0.00	7691.92	NIL
1.11	NEW	U001K	size up to 5 mts X 5 mts - depth up to 7 mts	NOS	0.00	431933.48	NIL
1.12	NEW	U001L	For additional 1 SQM - For 7 mts depth of size 5 Mts X 5 Mts.	SQM	0.00	8638.67	NIL
1.13	NEW	U001M	size up to 5 mts X 5 mts - depth up to 8 mts	NOS	0.00	479271.07	NIL
1.14	NEW	U001N	For additional 1 SQM - For 8 mts depth of size 5 Mts X 5 Mts.	SQM	0.00	9585.42	NIL
2.	NEW	U005	Installation of product pipe by pipe by manual jacking method Manufacturing, providing, transporting, rolling, lowering, laying & jointing, testing, commissioning of ERW (Electric Resistance Welded), SAW (Submerged Arc Welded) MS pipe (Fe-410 grade) conforming to IS 3589-2001 with latest amendments including perfect linking welding of joints to correct position including cost and conveyance of pipes and materials with all lead ,lift, cost of labour, loading and unloading of pipes for the following diameters with specified thickness				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			<p>of plate as noted below including bailing out of water wherever necessary for laying of MS carrier pipe of suitable dia including inside and outside of casing pipe painted with two coats of Anti corrosive tankmastic paint. Installation of steel pipe by Ramming / Jacking method to cross Railway track / NH /BDA /BBMP/Other roads/ Existing utilities / NALA crossings, filling the gap between casing pipe and carrier pipe with quarry grit using compressor with all necessary equipments, plants etc, complete. Suitable spacers Of HDP/MS or other similar material should be provided in between carrier & casing pipe to prevent carrier pipe forming metallic contact with casing pipe. The rates are inclusive of all taxes and duties.</p> <p>Note :</p> <p>a. The cost of jacking is inclusive of cost M.S. casing pipe of specified thickness</p> <p>b. The cost of carrying pipe is separate and provision shall be made as per site requirement</p> <p>c. The cost of Jacking includes all leads lifts, cost of consumables, fuel charges, labour and Taxes and duties.</p> <p>d. The cost of jacking and receiving pits shall be proposed separately as per site requirement.</p>				
2.1	NEW	U005A	Jacking of 600 mm dia & 10 mm thick M.S. Casing Pipe.	RMT	0.00	21800.83	NIL
2.2	NEW	U005B	Jacking of 900 mm dia & 10 mm thick M.S. Casing Pipe.	RMT	0.00	28833.06	NIL
2.3	NEW	U005C	Jacking of 1000 mm dia & 10 mm thick M.S. Casing Pipe.	RMT	0.00	31575.80	NIL
2.4	NEW	U005D	Jacking of 600 mm dia & 12 mm thick M.S. Casing Pipe.	RMT	0.00	23876.26	NIL
2.5	NEW	U005E	Jacking of 900 mm dia & 12 mm thick M.S. Casing Pipe.	RMT	0.00	31971.45	NIL
2.6	NEW	U005F	Jacking of 1000 mm dia & 12 mm thick M.S. Casing Pipe.	RMT	0.00	40309.23	NIL
2.7	NEW	U005G	Jacking of 1200 mm dia & 12 mm thick M.S. Casing Pipe.	RMT	0.00	47300.93	NIL
2.8	NEW	U005H	Jacking of 900 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	36283.49	NIL
2.9	NEW	U005I	Jacking of 1000 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	45197.32	NIL
2.10	NEW	U005J	Jacking of 1200 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	54863.25	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
2.11	NEW	U005K	Jacking of 1600 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	76849.30	NIL
2.12	NEW	U005L	Jacking of 1800 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	88366.75	NIL
2.13	NEW	U005M	Jacking of 2000 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	104875.04	NIL
2.14	NEW	U005N	Jacking of 2200 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	115635.67	NIL
2.15	NEW	U005O	Jacking of 2400 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	129327.31	NIL
2.16	NEW	U005P	Jacking of 2600 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	135839.96	NIL
2.17	NEW	U005Q	Jacking of 2800 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	142271.85	NIL
2.18	NEW	U005R	Jacking of 3000 mm dia & 16 mm thick M.S. Casing Pipe.	RMT	0.00	158860.84	NIL
3.	NEW	U007	Manufacturing, providing, transporting, rolling, lowering, laying & jointing, testing, commissioning of ERW (Electric Resistance Welded), SAW (Submerged Arc Welded) MS pipe (Fe-410 grade) conforming to IS 3589-2001 with latest amendments including perfect linking welding of joints to correct position including cost and conveyance of pipes and materials with all lead, lift, cost of labour, loading and unloading of pipes for the following diameters with specified thickness of plate as noted below including bailing out of water wherever necessary for laying of MS carrier pipe of suitable dia including inside and outside of casing pipe painted with two coats of Anti corrosive tank mastic paint. Installation of steel pipe by Ramming / Jacking method to cross Railway track / NH / BDA / BBMP / Other roads / Existing utilities / NALA crossings, filling the gap between casing pipe and carrier pipe with quarry grit using compressor with all necessary equipments, plants etc, complete. Suitable spacers of HDP / MS or other similar material should be provided in between carrier & casing pipe to prevent carrier pipe forming metallic contact with casing pipe. The rates are inclusive of all taxes and duties. Note : a. The cost of jacking is inclusive of cost M.S. casing pipe of specified thickness b. The cost of carrying pipe is separate and provision shall be made as per site requirement c. The cost of Jacking includes all leads lifts, cost of consumables, fuel charges, labour and Taxes and duties. d. The cost of jacking and receiving pits shall be proposed separately as per site requirement.				

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
3.1	NEW	U007A	Jacking of 1200 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	61318.06	NIL
3.2	NEW	U007B	Jacking of 1600 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	85713.09	NIL
3.3	NEW	U007C	Jacking of 1800 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	99519.99	NIL
3.4	NEW	U007D	Jacking of 2000 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	117258.14	NIL
3.5	NEW	U007E	Jacking of 2200 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	129259.85	NIL
3.6	NEW	U007F	Jacking of 2400 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	144183.07	NIL
3.7	NEW	U007G	Jacking of 2600 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	151780.46	NIL
3.8	NEW	U007H	Jacking of 2800 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	159219.41	NIL
3.9	NEW	U007I	Jacking of 3000 mm dia & 20 mm thick M.S. Casing Pipe.	RMT	0.00	177467.18	NIL
4.	18.2	U030	Installation of steel product pipe by HDD method including preparing and setting up the plant and equipment, preparing new pipe work materials, installing new pipe work and commissioning system or making the system ready for commissioning by HDD operation including all related civil and mechanical works like excavation, shoring / strutting etc. drilling, stringing, ramming and pulling back the new work on the design bore path alignment, proper disposal of drilling fluid and restoration of site after completion etc. for horizontal directional drilling technique suiting Indian conditions in all types of soil including the cost of sleeve / casing pipe etc. in all respects for:				
4.1	18.2.1	U030A	For pipes of 100 mm dia and 6 mm thick.	RMT	3885.00	4987.86	28.39
4.2	18.2.2	U030B	For pipes of 150 mm dia and 6 mm thick.	RMT	4680.00	5045.65	7.81
4.3	18.2.3	U030C	For pipes of 200 mm dia and 6 mm thick.	RMT	5476.00	7229.87	32.03
4.4	18.2.4	U030D	For pipes of 250 mm dia and 6 mm thick.	RMT	6270.00	7287.65	16.23
4.5	18.2.5	U030E	For pipes of 300 mm dia and 6 mm thick.	RMT	7066.00	9221.64	30.51
4.6	18.2.6	U030F	For pipes of 350 mm dia and 6 mm thick.	RMT	7866.00	9279.43	17.97
4.7	18.2.7	U030G	For pipes of 400 mm dia and 6 mm thick.	RMT	8656.00	13016.86	50.38
4.8	18.2.7	U030H	For pipes of 450 mm dia and 6 mm thick.	RMT	0.00	13132.43	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
5.	NEW	U050	Conducting ground penetrating RADAR SURVEY in a corridor of 4-6 meter width to detect burried utilities like pipes, cables etc. in such corridor. Marking of the detected utilities on the map of corridor with information of locations and depth to the top of various utilities detected. Work to be conducted using 500 Mhz and 300 Mhz antenna for the best possible resolution and penetration etc. for:				
5.1	NEW	U050A	Along the road for 6 meter wide corridor	RMT	0.00	39.27	NIL
5.2	NEW	U050B	Along the road crossings without dividers and upto 30 M width.	NOS	0.00	35904.00	NIL
5.3	NEW	U050C	Along the road crossings with dividers and upto 50 M width.	NOS	0.00	71808.00	NIL
5.4	NEW	U050D	Along the road crossings with dividers and upto 60 M width.	NOS	0.00	92004.00	NIL
5.5	NEW	U050E	Along the road crossings above 60M width for every 1 M and part thereof.	NOS	0.00	2356.20	NIL
6.	NEW	U060A	Conducting Seismic Refraction survey to determine stratigraphy along proposed route i.e, soil, seathered rock, rock interfaces. Detection of faults, fractures, shear zones etc. in the investigated area. Geophone spacing 5M, test to be conducted using 24 channel signal enchancement type sesmograph 5M Geophone Spacing and for projects having a minimum length of 115.	MTR	0.00	448.80	NIL

CHAPTER - 22

MAINTENANCE WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	NEW	V010A	Painting with synthetic enamel on old pipes, one or more coats, on 75 mm dia. pipes.	RMT	0.00	10.48	NIL
2.	NEW	V010B	Painting with synthetic enamel on old pipes, one or more coats, on 100 mm dia. pipes.	RMT	0.00	13.54	NIL
3.	NEW	V010C	Providing & fixing 455x610 mm cast iron cover with frame weight to be not less 38kgs (weight of cover 23 kgs and weight of frame 15 kgs)and necessary locking arrangements with M.S flats 32x6 mm etc & painting with two or more coats with black Japan paint etc. complete as directed by the engineer-in-charge.	NOS	0.00	2196.32	NIL
4.	NEW	V010D	Cleaning of Water Storage Tank or Sump by following method: (1) Empty the Tank/ Sump and make it to near dry, (2) Apply bleaching powder uniformly (@ Tank capacity x 0.5 gms/litre) inside the Tank/ Sump and wait for one hour, (3) After one hour, clean/ rinse the Tank/ Sump with fresh water. Repeat the process (2) & (3) for two to three times, all complete, as directed by the Engineer-in-charge.	LTR	0.00	0.61	NIL
5.	NEW	V010E	Providing & replacing damaged Cast Iron covers of size 300x 300 mm (wt 4.5 kg, for Gully trap) or 455x 610 mm (wt 23 kg, for M/H Cover) or of required size, to fit-in exactly inside the frame etc. complete. (NOTE:- CI Covers are to be replaced with RCC Covers in general OR where CI Covers are usually stolen) .	KGS	0.00	58.48	NIL
6.	NEW	V010F	Providing & replacing damaged/ dilapidated Cast Iron Frame of sizes 300x 300 mm (inside)(wt 2.7 kg for Gully trap) or 455x 610 mm (inside) (wt 15.0 kg, for Manholes) or of required size, including removing the damaged frame & fixing new frame with CM 1:3 (1 cement: 3 coarse sand) neatly finished etc, all complete. .	KGS	0.00	66.87	NIL
7.	NEW	V010G	Cleaning Seftic Tank of 50 users capacity as per details and instructions.	NOS	0.00	2244.00	NIL
8.	NEW	V010H	Cleaning Seftic Tank of 100 users capacity as per details and instructions.	NOS	0.00	2805.00	NIL
9.	NEW	V010I	Cleaning Seftic Tank of more than 100 users capacity as per details and instructions.	NOS	0.00	3366.00	NIL
10.	NEW	V010J	Cleaning of sewer line by Rodding Equipment for upto 150 mm dia.	RMT	0.00	33.66	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
11.	NEW	V010K	Cleaning of sewer line by Rodding Equipment for dia above 150 mm.	RMT	0.00	56.10	NIL
12.	NEW	V010L	Deduct for cleaning Sewer Line by using bamboo sticks &/or pull-through-rods instead of by the Rodding Equipment.	RMT	0.00	5.61	NIL
13.	NEW	V010M	Removing damaged/ unfunctional sanitary items like cistern, kitchen sink, wash basin, urinal basin including disconnecting all exiting fittings etc for replacement with New Items and stacking the removed material properly as directed by the Engineer-in-Charge	NOS	0.00	176.09	NIL
14.	NEW	V010N	Removing gland cock with fitting, repairing and refixing (Size 15 mm to 65 mm)	NOS	0.00	52.18	NIL
15.	NEW	V010O	Removing CI Road box and refixing as per specification.	NOS	0.00	201.66	NIL
16.	NEW	V010P	Removing RCC valve Box and refixing as per specification.	NOS	0.00	353.68	NIL
17.	NEW	V010Q	Removing the RCC Valve Box and 15cms size road box and conveying it to stores.	NOS	0.00	500.85	NIL

CHAPTER - 23

ELECTRICAL WORKS

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
1.	NEW	W010A	<p>Work of rewinding of HV side upto 100KVA power transformer as specified below:</p> <p>a. Switch off Power supply of transformer Isolator feeder and discharge with discharge rod.</p> <p>b. Disconnect the input and output cables form 100 Kva transformer.</p> <p>c. Drain old transformer oil from transformers, and flush the winding jet force with good BDV valve transformer oil.</p> <p>d. Manually lead up to crane reach and load to truck to shift factory.</p> <p>e. After rewinding the burnt out HV windings of transformer and replace the gaskets carbonized bolts and Nuts check the necessary tests.</p> <p>f. Fill the new transformer oil (BWSSB Supply) & replace the silica gel breather.</p> <p>g. Re install transformer after received form factory.</p> <p>h. Switch ON power supply and check the transformer, No load and on load.</p>	JOB	0.00	80000.00	NIL
2.	NEW	W010B	<p>Work of repair and rewinding of LV side upto 100 KVA power transformer as specified below:</p> <p>a. Drain out the contaminated transit oil completely from the reactor; flush the windings of the transformer with jet force of good BDV value transit oil.</p> <p>b. Removing the burnt out windings from all the three phases of the transformer provide new windings of LV side in all three phases.</p> <p>c. Clean the terminal connection with carbon tetra chloride solution.</p> <p>d. Fill the new transit oil (departmental supply) replace the bolts, nuts, washers and provide gasket etc., wherever necessary provide silica gel breather.</p> <p>e. Fix the transformer in the bet and charge the transformer and observe Performance "ON LOAD" and ensure for trueness of the transformer performance.</p>	JOB	0.00	75174.00	NIL
3.	NEW	W010C	<p>Work of servicing, leak arresting and oil filtration upto 400 KVA power transformers as specified below:</p> <p>a. Removing cable connection of transformer after isolating the supply dismantling the cable connection</p>	JOB	0.00	74000.39	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			<p>b. Replacing the existing leakage L.V side H.T Busing Gasket, oil seal, bolts and nuts etc. of the power transformer.</p> <p>c. Replacing the existing non-functioned damaged Dehydrating Breather by a new breather with new silica gel for the above transformer</p> <p>d. Arresting oil leak from exclusive vent, neutral bushing of valves, flanges, is drying arresting the leakage for L.V and HV side of power transformer and refilling of the transformer oil including cost of labour and necessary repaired materials.</p> <p>e. Repaint the Transformer using light grey epoxy paint of 2 coated as original.</p> <p>f. Filtering of oil in the transformer at the transformer center by hot process using stream line filter such that the dielectric strength of oil in the transformer conforms to ISI specification.</p> <p>g. Painting of entire structure of transformer yard including fencing using silver paint.</p>				
4.	NEW	W010D	<p>Work of repairs/servicing and overhauling of on load tap changer (OLTC) of upto 66KV/6.6KV 8MVA transformer as specified below:</p> <p>A). Removing the supply connection of diverter switch draining out the diluted oil of OLTC chamber, removing the diverter switch one by one carefully by using tripped and chain pulley block. Dismantling the moving and fixing contacts and cleaning with good quality cleaning agents to remove the carbon deposit, replacing the worn-out compression spring micro switch tap changing contacts, of worn gear assembly, replacing of worn out bearing oil seals, 'O' rings, gaskets, etc., in order to ensure fiction from operations of tap changing and oil leakage from diverter switch mechanism housing resistance by new one which will be supplied by departmentally, cleaning the diverter switch housing chamber to remove the carbon deposit lowering the serviced diverter switch inside the housing chamber and aligning the centre shaft by using lock nut, bolt and washers tightening of resistor conductors carefully without causing damaged to the nearby the contact refilling the good quality high BDV value insulation oil to the diverter switch housing chamber (oil will be supplied by the department adjusting the micro switch NO NC contacts and lifting liver for its proper function and covering the chamber by fixing the lid on the top and cleaning the oil gauge indicator with soap water, after drying refix the same testing the operation of tap changing system by giving upto 440 Volts</p>	JOB	0.00	49996.32	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			supply from tap position 1 to 25 after satisfactory charging over of all 25 taps in forward and reverse direction.				
5.	NEW	W010E	Work of repairs/servicing and overhauling of on load tap changer (OLTC) of upto 66KV/6.6KV 8MVA transformer as specified below: Painting of transformer including platform CTS etc., with one coat of red oxide to the rusted portion of transformer, 2 coats of M/s grey enamel paint, RYB color paint to CT caps for identification etc., Rates should quote inclusive of cleaning of the transformer of all sizes.	JOB	0.00	30069.60	NIL
6.	NEW	W010F	Work of repairing of diverter switch and replacement of resistance upto 66KV/6.6KV 8MVA Transformer as specified below: Removing the supply connection of diverter switch draining out the diluted oil of OLTC chamber, removing the diverter switch one by one carefully by using tripped and chain pulley block. Dismantling the diverter switch unit, removing the worn-out resistance from the diverter switch Supply and fixing of new resistance of same capacity as original to the diverter switch without disturbing the other running equipment, cleaning the diverter switch housing chamber to remove the carbon deposit, lowering the repaired diverter switch inside the housing chamber and aligning the centre shaft by using link nut, bolt and washers tightening of resistor conductors carefully without causing damaged to the nearby the contact refilling the good quality high BDV value insulation oil to the diverter switch housing chamber (oil will be supplied by the department) adjusting the micro switch NO, NC contacts and lifting liver for its proper function and covering the chamber by fixing the lid on the top. Testing the operation of tap changing system by giving upto 440 Volts supply from tap position 1 to 25 after satisfactory charging over all 25 taps in forward and reverse direction.	JOB	0.00	79970.55	NIL
7.	NEW	W010G	Works of Supply fixing and wiring of tap position indicator to RTCC panel transformer as detailed: Tap position indicator Aux supply: -110V or 230V AC +15% 50HZ, Resistance: - 1 Kilo ohms per step, Tele-transmitter: -3Wire connection 1 to 99 position, Display: -2Digit 7 segment LED, Accuracy -Tolerance +2%, Type of mounting:- Panel mounting 90x90x70 mm, Dimension:-96 mm x 96 mm x 70 mm, Accuracy: -Class 11	NOS	0.00	21460.05	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
8.	NEW	W010H	Works of Supply fixing and wiring of digital kilowatt meter to RTCC panel upto 5MVA transformer as detailed: Aux supply -606KV-110V OR 230V AC, Range - 0 to 9 KW, Burden - 4VA, Display -3.1/2 digital for nominal full seals, Voltage input -110V from P.T, Mountry -Panel type, Cut out size - 90x90 mm, Ambient Emp -0.50degree C, Model - DM 3257 ACC.CL:1.0, Accuracy -Class -1.0	NOS	0.00	18500.10	NIL
9.	NEW	W030A	Work of supply, erection and commissioning of indoor upto 250 Amps distribution panel as specified below: Supply, erection and commissioning of Indoor type upto 250 Amps MCCB distribution panel with outgoing copper bus bar, having, accessories like MCCB, incoming and outgoing entry bus bar, ammeter volt meter, ammeter selector switch, LED indication lamp, and with suitable M.S box with required stand unit set. Suitable for Indoor type complete as per latest IS standard specification.	NOS	0.00	72890.06	NIL
10.	NEW	W030B	Work of supply and fixing of 85W, LED high way fitting to top of panel board, soft starter and breaker as specified below: Supplying High pressure high way 85W LED fitting die cast aluminum canopy with aluminum housing to control gear, finished stove enamel gray glassy white canopy interior with a pair of anodized aluminum reflectors clear acrylic bowl, gasket lining for dip inseat resistance duly wired with single or multi LEDS.	NOS	0.00	19750.00	NIL
11.	NEW	W040A	Work of supply and fixing of isolator panel and capacitor panel fuses to motor. as specified below: A) Removing the damaged burnt out fuses upto 63Amps 7.2 /11 K.V isolator fuses form isolator panel for motor cleaning the fuse carriers with CTC and apply petroleum jelly for fuse contacts and rectify the faulty in the isolator panel. Supply and fixing new fuses upto 7.2/11 K.V isolator fuses to the fuse carrier and checking its working. B) Removing the damaged burnt out fuses upto 30Amps 7.2/11 K.V capacitor fuses form capacitor panel of motor cleaning the fuse carriers with CTC and apply petroleum jelly for fuse contacts and rectify the faulty in the isolator panel. Supply and fixing new fuses upto 7.2/11 K.V capacitor fuse to the fuse carrier and checking its working	NOS	0.00	16028.80	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
12.	NEW	W040B	Work of repairing and servicing of capacitor isolator panel of motors as specified below: A) Dismantling the closing and tripping mechanism, removing the broken, closing lever, cylinder, moving contact tips, and service the entire mechanism, supplying and fixing the new closing lever full set cylinder, moving contact tips, etc., check the electrical circuit, replacement of burnt out LED Indication lamps etc., finally the panel should be tested for its running satisfactorily. B) Draining out contaminated breakdown oil completely from reactors, flushing of windings in the reactors with jet force of good BDV. Value transformer oil, cleaning of windings and flushing of carbon deposition over the windings in all the three phase of reactors, removing the terminals and cleaning the terminal bushings with carbon tetrachloride solution, checking of resistance of the windings of the correct value in all the three phases, filling the new oil with break down voltage value. (transformer oil will be supplied by the department).	JOB	0.00	36429.10	NIL
13.	NEW	W040C	Work of replacement of faulty control components and modification and rewiring of soft starter panel upto 1250KW/6.6KV motor as specified below: a. Disconnecting the power cables and control cables. b. Removal of faulty control components and cable disconnections. c. Supply and fixing Auxiliary contractors, upto 110Volt DC coil Supply with 2 NO, 2NC. d. Supply and fixing of Electronic Timers, 24 Volt AC Range 0 to 30 seconds. e. Supply and fixing of MCBs, 2 pole, 10A. f. Supply and fixing of suitable color LED indication Bulbs and reset Push Buttons Red in color. g. Supply and fixing of temperature Scanner. Along with RTDs 3.5 Mtr each. h. The necessary tapping/drilling work has to be done for fixing the above components and rewiring to be done etc., i. Testing the soft starter with above supplied components. j. Commissioning the soft starter and handing over the system to department.	JOB	0.00	73460.03	NIL
14.	NEW	W040D	Work of supply and fixing of 40 amps star delta panel Boards upto 15Hp backwash pump motor as specified below:	JOB	0.00	35890.09	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			<p>a. Supply and fixing of new upto 15 Hp star delta starter panel board for back wash motor with the following materials.</p> <p>b. Power connector upto 40 A.</p> <p>c. On delay, off delay automatic timer.</p> <p>d. Over current relay upto 20-60 amps</p> <p>e. Upto 10 amps MCB 3 Pole for control circuit.</p> <p>f. Contactor 2 No+ 2 Nc upto 25 amps</p> <p>g. Single phase preventer.</p> <p>h. On and off push button switch.</p> <p>i. LED indication lamps RYB motor on, off and trip.</p> <p>j. 0 to 600 volts meter upto 96/96 mm.</p> <p>k. Amps meter C.T Ratio upto 100/5A.</p> <p>l. Current Transformer for metering upto 100/5A.</p> <p>m. upto 30 mmx10 mm Electronic Grad Aluminum bus bar for RYB phases.</p> <p>n. Internal main wiring using upto 95 sq. mm Copper wire.</p> <p>o. Volts and ammeter selector switch.</p>				
15.	NEW	W040E	Work of overhauling and servicing and repairing of southern switch gear make breakers of motor as specified below: Lowering the breaker from the panel after isolating the supply, draw out the breaker truck from the panel, checking the fixed and moving contacts. Removing the burnt out parts from the breaker. Supply and fixing of new closing assembly, rose contact, copper poker, banana link, lifting assembly. Checking the mechanical parts such as moving cam, lifting bar assembly, tripping mechanism and closing mechanism of the breaker and servicing the entire breaker. Check the trip and closing coil of the breaker replace the same if required. Replace the oil (Supply by departmentally). The breaker has to be checked in test position after complete servicing for proper operation and satisfaction.	JOB	0.00	79942.50	NIL
16.	NEW	W040F	Work of repair and servicing of LOCB breakers of motor feeders and spare breakers as specified below: MECHANICAL PORTION: Removing the complete unit breaker mechanism from the breaker without damaging the arc chamber, wiring to be recorded before removing the breaker mechanism. Dismantling the tension spring latching unit etc., inspecting the alignment and rectify the fault in breakers for proper closing and opening cleaning all moving contact finger contact and fixed contact by C.T.C replace the oil by new oil (Oil will be supplied by the departments). ELECTRICAL PORTION: Checking of entire electrical operation of the	JOB	0.00	19500.02	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
			breaker panel checking ON & OFF circuit, change over scheme replacement of closing coil, tripping coil, closing contractor wiring should be checked as per drawing, damaged wire should be replaced by new one, all the required spare will be supplied by departmentally. The work should be carried out without disturbing other running equipment.				
17.	NEW	W040G	Work of repair, overhauling & servicing of southern switch gear breakers of capacitor bank as specified below: Lowering the breaker from the panel after isolating the supply, draw out the breaker truck from the panel, checking the fixed and moving contacts and replace with new contacts wherever necessary. Repair the worn out rose contacts and poker tips. Checking the mechanical parts such as moving cam, lifting bar assembly, tripping mechanism and closing mechanism of the breaker and servicing. Check the trip and closing coil of the breaker. The breaker has to be checked in test position after complete servicing for proper operation and satisfaction	JOB	0.00	35887.17	NIL
18.	NEW	W040H	Working of repairing and overhauling of upto 800amps as specified below: Complete dismantling of breaker units of upto 800 amps breaker of filter house taking out the fixed and moving contacts of all the poles, cleaning and putting back with necessary lubrication and checking of complete electrical circuit for proper closing and tripping including necessary replacement of 'V' bar contact, finger contact, contact tips, arcing contact, tripping and closing coil, back housing set, with female contacts, panel fixed contact set including hylem sheet with contacts, gasket and dash pit oil etc., Testing of tripping and closing mechanism in order to ensure easy of operation of the breaker and commissioning of the system as per the standard practice without interruption of power supply. (Required oil will supply department.)	JOB	0.00	72200.70	NIL
19.	NEW	W040I	Work of repairing and overhauling of upto 400 amps LT breaker bus coupler as specified below: Complete dismantling of breaker units of 400 amps, breaker of compressor room taking out the fixed and moving contacts of all limbs, cleaning and putting back with necessary lubrication and checking of complete electrical circuit for proper closing and tripping including necessary replacement of V bar contact finger contact, contact tips of arcing, contacts of tripping and closing coil, back housing set, gasket and dash	JOB	0.00	72200.70	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incres. / decres.
			pot oil etc. Testing and tripping and closing mechanism in order to ensure easy operation of the breaker and commissioning of the system as per the standard practice without interruption of power supply. (Required oil will be supplied by the department)				
20.	NEW	W040J	<p>Work of repair and rewinding of reactor provided to isolator of motor as specified below:</p> <p>A) Drain out the contaminated transit oil completely form the reactor; flush the windings of the reactor with jet force of good BDV value transit oil.</p> <p>B) Removing the burnt out from all the three phased of the reactor provide new windings in all three phases.</p> <p>C) Clean the terminal connection with carbon tetra chloride solution.</p> <p>D) Fill the new transit oil (departmental supply) replace the bolts, nuts, washers and provide gasket etc., wherever necessary provide silica jel breather.</p> <p>E) Fix the reactor in the isolator panel and charge the capacitor bank and observe performance “ON LOAD” and ensure for trueness of the reactor performance.</p>	JOB	0.00	72986.10	NIL
21.	NEW	W040K	<p>Work of overhauling and servicing upto 1250KW, 6.6KV, motor as specified below:</p> <p>a. Disconnect the HT/LT, Cable and record motor details take out the motor from bed</p> <p>b. Check alignment and record details</p> <p>c. Check IR values before removing motor.</p> <p>d. De-couple the motor from pump & taken out from removing anchor bolts</p> <p>e. Dismantling motor end shields</p> <p>f. Removing rotor from stator, checking IR values of stator cleaning stator with thinner, and petrol,</p> <p>g. Removing the moisture of stator by using heaters(oven)</p> <p>h. Revarnishing of stator & rotor baking in oven, applying becktol red on windings on both stator & rotor</p> <p>i. Greasing of bearings,</p> <p>j. Assembling of motor</p> <p>k. Checking IR values of motor and recording the same</p> <p>l. Alignment of motors with pump, and commissioning the motor on No-Load and load trial.</p>	JOB	0.00	72369.00	NIL

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
22.	NEW	W040L	Cutting of the damaged portion of upto 3x150sq. mm XLPE cable Supplying one number of indoor termination kit upto 3x150 sq.mm HT XLPE cable and attending the termination work upto 3x150sq. mm HT cable of Neutral side cable by using upto 150sq.mm copper lugs, self adhesive HT tape, crimping tool, heat shrinkable termination kit and required bolts and nuts etc., and Commissioning the motor on load. The work including the cost of materials, labour charges, taxes and the rebate towards the cost of released materials etc.	JOB	0.00	12454.20	NIL
23.	NEW	W040M	Supply and brazing of motor end lead cable by using H.T Copper lugs, brazing materials, gas, soldering past, etc as original for all the three phases for motor.	JOB	0.00	35890.09	NIL
24.	NEW	W040N	Removing the burnt out supporting insulator from motor of main side Supply and fixing of new insulator to same place as original.	JOB	0.00	18519.73	NIL
25.	NEW	W040O	Removing the burnt out copper flats form all the 3 phases of neutral side motor. Supplying. copper flats copper flats to neutral side connection. Re connect the motor end cable & cable connection using bolts nuts and washers etc as original	JOB	0.00	17637.84	NIL
26.	NEW	W060	Removing & refixing the pump after repairing of existing horizontal mounting/ monoblock pump with following spares, etc. including aligning of pump with reference to motor & running the pump on load.				
26.1	NEW	W060A	Repairs of Booster Pumps Upto 5HP	JOB	3328.68	3236.97	-2.76
26.2	NEW	W060B	Repairs of Booster Pumps 5 HP to 10 HP	JOB	4015.08	3918.02	-2.42
26.3	NEW	W060C	Repairs of Booster Pumps 10 HP to 15 HP	JOB	5493.98	5350.82	-2.61
26.4	NEW	W060D	Repairs of Booster Pumps 15 HP to 20 HP	JOB	17330.94	16749.22	-3.36
26.5	NEW	W060E	Repairs of Booster Pumps 20 HP to 30 HP	JOB	22742.87	22146.04	-2.62
26.6	NEW	W060F	Repairs of Booster Pumps 30 HP to 40 HP	JOB	28167.06	27480.02	-2.44
26.7	NEW	W060G	Repairs of Booster Pumps 40 HP to 50 HP	JOB	36195.60	35349.73	-2.34
26.8	NEW	W060H	Repairs of Booster Pumps 50 HP to 60 HP	JOB	41572.40	40519.91	-2.53
26.9	NEW	W060I	Repairs of Booster Pumps 60 HP to 75 HP	JOB	52683.44	51285.50	-2.65
26.10	NEW	W060J	Repairs of Booster Pumps 75 HP to 100 HP	JOB	68472.02	66656.90	-2.65
26.11	NEW	W060K	Repairs of Booster Pumps 100 HP to 150 HP	JOB	78189.70	76039.06	-2.75
26.12	NEW	W060L	Repairs of Booster Pumps 150 HP to 200 HP	JOB	94062.70	91423.93	-2.81
26.13	NEW	W060M	Repairs of Booster Pumps 200 HP to 250 HP	JOB	108717.39	105597.03	-2.87
26.14	NEW	W060N	Repairs of Booster Pumps 250 HP to 300 HP	JOB	123371.39	119944.04	-2.78
26.15	NEW	W060O	Repairs of Booster Pumps 300 HP to 350 HP	JOB	138391.43	134657.95	-2.70

Sl. No.	Sl.No. SR 16-17	Code SR 17-18	DESCRIPTIONS	UNIT	Rate of SR 16-17	Rate of SR 17-18	% incre. / decres.
26.16	NEW	W060P	Repairs of Booster Pumps 350 HP to 400 HP	JOB	150260.42	146221.28	-2.69
27.	NEW	W070	Removing and refixing the 230/415 v 50 hz I phase/III phase suitable capacity suitable speed horizontal foot mounted screen protected drip proof continuous rated monoblock / squirrel cage induction motor with F class insulation, class H super enamelled copper wire with as per standards including transportation charges etc.,				
27.1	NEW	W070A	Repairs of Booster Motors Upto 5HP	JOB	5590.93	5266.67	-5.80
27.2	NEW	W070B	Repairs of Booster Motors 5 HP to 10 HP	JOB	7078.13	6679.27	-5.64
27.3	NEW	W070C	Repairs of Booster Motors 10 HP to 15 HP	JOB	10862.77	10328.01	-4.92
27.4	NEW	W070D	Repairs of Booster Motors 15 HP to 20 HP	JOB	18794.84	17916.10	-4.68
27.5	NEW	W070E	Repairs of Booster Motors 20 HP to 30 HP	JOB	28782.47	27399.24	-4.81
27.6	NEW	W070F	Repairs of Booster Motors 30 HP to 40 HP	JOB	34528.78	32890.31	-4.75
27.7	NEW	W070G	Repairs of Booster Motors 40 HP to 50 HP	JOB	41230.59	39283.46	-4.72
27.8	NEW	W070H	Repairs of Booster Motors 50 HP to 60 HP	JOB	49142.94	46937.75	-4.49
27.9	NEW	W070I	Repairs of Booster Motors 60 HP to 75 HP	JOB	60392.02	57743.73	-4.39
27.10	NEW	W070J	Repairs of Booster Motors 75 HP to 100 HP	JOB	78249.77	74797.01	-4.41
27.11	NEW	W070K	Repairs of Booster Motors 100 HP to 150 HP	JOB	107098.43	102233.27	-4.54
27.12	NEW	W070L	Repairs of Booster Motors 150 HP to 200 HP	JOB	131100.65	124752.94	-4.84
27.13	NEW	W070M	Repairs of Booster Motors 200 HP to 250 HP	JOB	159804.61	151495.81	-5.20
27.14	NEW	W070N	Repairs of Booster Motors 250 HP to 300 HP	JOB	184953.03	174809.84	-5.48
27.15	NEW	W070O	Repairs of Booster Motors 300 HP to 350 HP	JOB	217040.10	204631.48	-5.72
27.16	NEW	W070P	Repairs of Booster Motors 350 HP to 400 HP	JOB	253706.29	238615.74	-5.95