

**STORM WATER DRAIN DEPARTMENT**  
**SCHEDULE OF RATES : 2020-2021**  
With effect from

Sl. No	Item Code	Description	Unit	North Zone	Central Zone	South Zone
1	SWD 1	Dismantling RCC Slab(reinforcement is being corroded) from Storm Water Drain - Steel is declared unfit for reuse	CUM	1557.60	1557.60	1557.60
2	SWD 2	Desilting of Storm Water Drain	CUM	221.76	221.76	221.76
3	SWD 3	Supplying of 600mm dia - (24") FRC manhole cover and frame -complete one set (20MT)	Each	2450.00	2450.00	2450.00
4	SWD 4	Supplying of 600mm dia - (24") FRC Gully Gratings of 600mm Dia. with 12 holes of 50MM Dia. (Cover with Frame) (10MT)	Each	3450.00	3450.00	3450.00
5	SWD 5	Supplying and fixing of 24" FRC manhole cover with frame 600mm dia clear opening heavy duty as per IS:12592/2002. The frame & cover shall bear a non fracture load of 20MT for 30seconds with frame height of 165mm, cover height 90mm, Bearing (Seating area of cover)75mm with Hot Dip Galvanizing Hook of cover 16mm, frame edge protection flat of size 25 x 3mm exposed surface of M.S. rings shall be painted with anti corrosive bitumastic paint	Each	3848.10	3848.10	3848.10
6	SWD 6	Supplying and fixing of 24" FRC Gully Gratings of 600mm Dia. with 12 holes of 50MM Dia. (Cover with Frame) complete one set. The frame and cover will bear a non fracture load of 10 M.T. for 30 Seconds with frame height of 165 mm (shall confirm I.S.12592/2002), cover height 90mm, Bearing (Seating area of cover) 75mm with Hot Dip Galvanizing Hook of cover 16mmM.S. rod, frame edge protection flat of size 25x3mm exposed surface of M.S.rings shall be painted with anti corrosive bitumastic paint	Each	4848.10	4848.10	4848.10
7	SWD 7	Supplying and fixing of FRP manhole door with cover 600mm dia (cirucular) <b>Medium Duty (10 - MT)</b> load capacity of approved brand confirming to BSEN – 124:1994. Product shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658: 2006. It shall also confirm "Permanent Set" criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole.	Each	8673.10	8673.10	8673.10
8	SWD 8	Supplying and fixing of FRP manhole door with cover 600mm dia (cirucular) <b>Heavy Duty (20 - MT)</b> load capacity of approved brand confirming to BSEN – 124:1994. Product shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658: 2006. It shall also confirm "Permanent Set" criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole.	Each	9618.10	9618.10	9618.10

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9	SWD 9	Supplying and fixing of FRP manhole door with cover 900mm dia (circular) <b>Medium Duty (10 - MT)</b> load capacity of approved brand confirming to BSEN – 124:1994. Product shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658:2006. It shall also confirm “Permanent Set” criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole.	Each	15963.10	15963.10	15963.10
10	SWD 10	Supplying and fixing of FRP manhole door with cover 900mm dia (circular) <b>Heavy Duty (20 - MT)</b> load capacity of approved brand confirming to BSEN – 124:1994. Product shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658:2006. It shall also confirm “Permanent Set” criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set. The lifting arrangement should have an insert of 5mm in SS 304 socket type with key hole.	Each	17403.10	17403.10	17403.10
11	SWD 11	Supplying and fixing of FRP Grating of size 1000mm (Length) x 155mm (Height) x 30mm thick for vertical application. The grating should have zero filter content and should be non-painted, but self pigmented. The filter content tested as per ISO 3451, the slot opening should be 30mmx30mm with an average wall thickness of 8mm	Rm	2418.10	2418.10	2418.10
12	SWD 12	SUPPLYING AND FIXING FRP of 550 x 550mm (clear opening 450 x 450mm) ( <b>Grating cover with frame - Medium Duty - 10 MT</b> ) Composite Fibre Glass Reinforced Polyester gully grating and frame of appropriate size and load capacity of approved brand confirming to BSEN – 124:1994. Gully grating shall have minimum 30% of water entrance area that of clear opening of the chamber. Gully grating shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658:2006. It shall also confirm “Permanent Set” criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set.	Each	7913.10	7913.10	7913.10
13	SWD 13	SUPPLYING AND FIXING FRP of 700 x 700mm (clear opening 600 x 600mm) ( <b>Grating cover with frame - Medium Duty - 10 MT</b> ) Composite Fibre Glass Reinforced Polyester gully grating and frame of appropriate size and load capacity of approved brand confirming to BSEN – 124:1994. Gully grating shall have minimum 30% of water entrance area that of clear opening of the chamber. Gully grating shall have top abrasion resistant layer of decorative grey granite finish confirming to test performed as per IS – 15658:2006. It shall also confirm “Permanent Set” criterion as per BSEN-124. Product should be tested in NABL accredited test lab for load capacity and permanent set.	Each	10033.10	10033.10	10033.10

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14	SWD 14	Construction of cast -in- situ Silt Catch Pit of inner size 450 X 450 X 450 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under wall 150mm thick and fixing vertical grating of size 450mm x 155mm x 30mm on the storm water drain mouth with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 9.25 kg including fixing FRP Grating Cover with frame of size 550 x 550mm (clear opening 450 x 450mm) -10 MT -completing the finishing work etc.	Each	12554.28	12520.39	12481.44
15	SWD 15	Construction of cast -in- situ Silt Catch Pit of inner size 450 X 450 X 450 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under wall 150mm thick and cutting the existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 9.25 kg including fixing FRP Grating Cover with frame of size 550 x 550mm (clear opening 450 x 450mm) - 10 MT -completing the finishing work etc.	Each	11895.93	11862.04	11823.09
16	SWD 16	Construction of cast -in- situ Silt Catch Pit of inner size 600 X 600 x 600 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and cutting the existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth, with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 10.60 kg including fixing FRP Grating Cover with frame of size 700 x 700mm (clear opening 600 x 600mm) - 10 MT - completing the finishing work etc., cost per each number.	Each	16214.94	16162.11	16101.27
17	SWD 17	Construction of cast-in-sit Silt Catch Pit of inner size 600x600x600mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and fixing vertical grating of size 600mm length x 155mm height and 30mm thick on the storm water drain mouth, with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 10.60kg including fixing FRP Grating Cover with frame of size 700mmx700mm (Clear opening 600x600mm) - 10MT completing the finishing work etc., cost per each number.	Each	17260.92	17208.09	17147.25
18	SWD 18	Construction of cast -in- situ Silt Catch Pit Rain water harvesting of inner size 450 X 450 x 450 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and cutting the existing storm water drain of size 450 X 300 X 50mm for fixing vertical grating of size 450mm x 155mm x 30mm on the storm water drain mouth, with RCC cast in situ wall of size 150mm in RCC 1:1.5:3 with steel of 7.94 kg including fixing FRP Grating Cover of size 550 X 550 X 40 mm -10 MT -completing the finishing work etc., cost per each number. Using Hand Bore Set drilling of bore hole of 300mm dia upto 4.35m depth including shifting of the hand bore from one place to another place within 5 km and filling in with 40mm HBG metal with 200mmdia pvc pipe 6kg/cm <sup>2</sup>	Each	18627.69	18593.80	18554.84

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19	SWD 19	Construction of cast -in- situ Silt Catch Pit with Rain Water Harvesting Structure of inner size 450 X 450 x 450 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and cutting existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth, with RCC cast in situ wall of size 150mm in RCC 1:1.5:3 with steel of 9.25 kg including fixing FRP Grating Cover of size 550 X 550 X 40 mm -10 MT -completing the finishing work etc., cost per each number. Using Hand Bore Set drilling of bore hole of 300mm dia upto 4.35m depth including shifting of the hand bore from one place to another place within 5 km and filling in with 40mm HBG metal with 200mm dia slotted pvc pipe of 6kg/cm2	Each	18237.17	18200.08	18157.43
20	SWD 20	Construction of cast -in- situ Silt Catch Pit With Rain Water Harvesting Structure of inner size 600 X 600 x 600 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and cutting the existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth, with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 10.60 kg including fixing FRP Grating Cover with frame of size 700 x 700mm (clear opening 600 x 600mm) - 10 MT - completing the finishing work etc., cost per each number. Using Hand Bore Set drilling of bore hole of 300mm dia upto 4.35m depth including shifting of the hand bore from one place to another place within 5 km and filling in with 40mm HBG metal with 200mmdia slotted pvc pipe 6kg/cm2	Each	22487.69	22434.85	22374.02
21	SWD 21	Construction of cast-in-sit Silt Catch Pit with Rain Water Harvesting Structure of inner size 600x600x600mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and fixing vertical grating of size 450mm length x 155mm height and 30mm thick on the storm water drain mouth, with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 10.60kg including fixing FRP Grating Cover with frame of size 700mmx700mm (Clear opening 600x600mm) - 10MT completing the finishing work etc., cost per each number. Using Hand Bore Set drilling of bore hole of 300mm dia upto 4.35m depth including shifting of the hand bore from one place to another place within 5km and filling in with 40mm HBG metal with 200mm dia slotted PVC pipe 6kg/cm2	Each	23533.67	23480.84	23420.00
22	SWD 22	Providing of Rain Water Harvesting struture using precast well ring size 1200 (inner dia) x 4500mm (Height) (300mm x 15Nos) x 50mm (thick) using 1:1.5:3 concrete necessary earth work excavation providing PCC 1:5:10 and RCC cover slab of 1680mm dia 180mm thick . Providing bore hole of size 300mm dia using hand bore set upto 8.50m depth including shifting of the hand bore from one place to another plac with in 5km, erecting 200mm dia slotted PVC pipe (6kg/cm2) with cowl, filling with 20mm HBG metal out side peripheral of the pipe including cost, conveyance, cleaning the site and finishing etc., complete.	Each	65326.38	65248.88	65159.18

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23	SWD 23	Providing of Rain Water Harvesting struture using precast well ring of size 1200 (inner dia) x 4500mm (Height) (300mm x 15Nos) x 50mm (thick) using 1:1.5:3 concrete necessary earth work excavation providing PCC 1:5:10 and RCC cover slab of 1680mm dia 180mm thick including cost, conveyance, cleaning the site and finishing etc., complete.	Each	59113.82	59036.32	58946.62
24	SWD 24	Providing Iron Barricading of size 2m width and 1 m height with 40mm dia MS Tubular pipe for vertical supports on both sides and three lines of barricading with 25mm size MS tubular pipe and 2 x 1m M.S. Sheet with name board of size 0.60 x 0.45 m size M.S.sheet (20 gauge) including Cutting, Welding, fabrication charges and one coat of primer and 2 coats of enamel paint of approved quality with fixing of indication with reflecting stickers and necessary interlocking arrangements with adjoining units and placing the barricading units as directed at the site for a period of 28 days. The M.S. Sheet barricading is a temproray barricading and can be removed and reused after the completion of work in a particular stretch.	R/M	132.75	132.75	132.75
25	SWD 25	Supplying of 600mm dia - (24") FRC Gully Gratings of 600mm Dia. with 12 holes of 50MM Dia. (Cover with Frame) heavy duty as per IS:12592/2002. The frame & cover shall bear a non fracture load of 20MT for 30seconds with frame height of 165mm, cover height 90mm, Bearing (Seating area of cover)75mm with Hot Dip Galvanizing Hook of cover 16mm, frame edge protection flat of size 25 x 3mm exposed surface of M.S. rings shall be painted with anti corrosive bitumastic paint-complete one set	Each	3700.00	3700.00	3700.00
26	SWD 26	Supplying and fixing of 24" FRC Gully Gratings of 600mm Dia. with 12 holes of 50MM Dia. (Cover with Frame) complete one set. The frame and cover will bear a non fracture load of 20 M.T. for 30 Seconds with frame height of 165 mm (shall confirm I.S.12592/2002), cover height 90mm, Bearing (Seating area of cover) 75mm with Hot Dip Galvanizing Hook of cover 16mmM.S. rod, frame edge protection flat of size 25x3mm exposed surface of M.S.rings shall be painted with anti corrosive bitumastic paint	Each	5098.10	5098.10	5098.10
27	SWD 27	SUPPLYING AND FIXING Ductile Iron grating hinged with frame clear opening of size 450 x 450mm Ductile Iron grating hinged with frame of class C-250 (Heavy Duty 25MT) of appropriate size and load capacity of approved brand confirming to BSEN 124:1994 Standards. Raw material should be of grade SG/500/7 as per IS-1865. Product should be tested in NABL/NTH accredited test lab for load capacity.	Each	9998.10	9998.10	9998.10
28	SWD 28	SUPPLYING AND FIXING of Ductile Iron grating hinged with frame Clear opening of size 600 x 600mm of class C-250 (Heavy Duty 25MT) of appropriate size and load capacity of approved brand confirming to BSEN 124:1994 Standards. Raw material should be of grade SG/500/7 as per IS 1865. Product should be tested in NABL/NTH accredited test lab for load capacity.	Each	14798.10	14798.10	14798.10

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29	SWD 29	Construction of cast -in- situ Silt Catch Pit of inner size 450 X 450 X 450 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under wall 150mm thick and cutting the existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 9.25 kg including fixing Ductile Iron grating hinged with frame clear opening 450 x 450mm -25 MT - completing the finishing work etc.	Each	13980.93	13947.04	13908.09
30	SWD 30	Construction of cast -in- situ Silt Catch Pit With Rain Water Harvesting Structure of inner size 600 X 600 x 600 mm including necessary earth work excavation including providing foundation in PCC 1:5:10 under walls 150mm thick and cutting the existing storm water drain of size 300 x 150mm for fixing 2 Nos of 160mm dia PVC pipe on the storm water drain mouth, with RCC cast in situ wall of size 120mm in RCC 1:1.5:3 with steel of 10.60 kg including fixing Ductile Iron grating hinged with frame Clear opening of size 600 x 600mm of class C-250 (Heavy Duty 25MT) - completing the finishing work etc., cost per each number. Using Hand Bore Set drilling of bore hole of 300mm dia upto 4.35m depth including shifting of the hand bore from one place to another place within 5 km and filling in with 40mm HBG metal with 200mmdia pvc pipe 6kg/cm2	Each	27252.69	27199.85	27139.02
31	SWD 31	Towards the hire charges for providing temporary approach platforms to the residences near execution site including the cost of fabrication,placing properly across the drains removing the same after the work is complete etc as directed by Engineer in charge. The approach platform will be made of 2.40mx1.20m - 6mm MS sheet fabricated with 50mm dia B-class MS pipe-3.6m at bottom longitudinal and 3 Nos MS flat 25mmx6mm cross direction and both side of hand rail with 50mm dia 1 No of horizontal and 2 Nos of Vertical support including fixing MS flat drilled and suitable for joining with bolts and nuts including cost of materials, welding, painting etc complete	Sq.m	209.40	209.40	209.40
32	SWD 32	Providing chain link fencing (2" x 2") using 10 gauge PVC coated Galvanised Iron wire mesh to a height of 1.60m with MS angle ISA 75mm x 75mm x 8mm including horizontal and diagonal Flats of size 25mm width x 6mm (Double Flats) welded to angles, rate including welding, fixing and painting etc., complete. (Channel and Canal)	R/m	3913.00	3913.00	3913.00
33	SWD 33	Construction of Modular type RWH Structure capacity of 4.32 cu.m by using infiltration modules of size 800 x 800 x 660 mm and side wall with infiltration modules of size 800 x 660 x 25 mm including excavating in bitumen / concrete roads surface to a size of 1200 x 1200 x 3000 mm and providing base plate, Geo - textile 400mm - 200 micron, Fine filter media 12mm thickness, Coarse filter media 20mm thickness, Road cells 50mm height, all upto BBA/IS Standard including all labour charges, carting away etc., complete.(Model-1)	Each	58752.63	58752.63	58752.63

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34	SWD 34	Construction of Modular type RWH Structure capacity of 4.32 cu.m by using infiltration modules of size 800 x 800 x 660 mm and side wall with infiltration modules of size 800 x 660 x 25 mm including excavating in bitumen / concrete roads surface to a size of 1200 x 1200 x 3000 mm and providing base plate, Geo - textile 400mm - 200 micron, Fine filter media 12mm thickness, Coarse filter media 20mm thickness, Road cells 50mm height, all upto BBA/IS Standard including all labour charges, carting away and drilling borewell 150mm dia upto a depth of 3.0m with 125mm dia PVC pipe 4kg/cm2 etc., complete.(Model-2)	Each	62327.90	62327.90	62327.90
35	SWD 35	Construction of Modular type RWH Structure capacity of 4.32 cu.m by using infiltration modules of size 800 x 800 x 360 mm and side wall with infiltration modules of size 800 x 360 x 25 mm including excavating in bitumen / concrete roads surface to a size of 1200 x 1200 x 3000 mm and providing base plate, Geo - textile 400mm - 200 micron, Fine filter media 12mm thickness, Coarse filter media 20mm thickness, Road cells 50mm height, all upto BBA/IS Standard including all labour charges, carting away etc., complete. (Model - 3)	Each	56234.85	56234.85	56234.85
36	SWD 36	Construction of Modular type RWH Structure capacity of 4.32 cu.m by using infiltration modules of size 800 x 800 x 360 mm and side wall with infiltration modules of size 800 x 360 x 25 mm including excavating in bitumen / concrete roads surface to a size of 1200 x 1200 x 3000 mm and providing base plate, Geo - textile 400mm - 200 micron, Fine filter media 12mm thickness, Coarse filter media 20mm thickness, Road cells 50mm height, all upto BBA/IS Standard including all labour charges, carting away and drilling borewell 150mm dia upto a depth of 3.0m with 125mm dia PVC pipe 4kg/cm2 etc., complete.(Model-4)	Each	59937.90	59937.90	59937.90
37	SWD 37	Shoring and shrutting for all trenches excavated beyond 2m depth in all soils and for loose soils as per prevailing site conditions using country wood planks, necessary scantling, Nails, wedges including all labour and fabrication charges etc. complete. (upto 2.50m depth)	Sq.m	151.40	151.40	151.40
38	SWD 38	Shoring and shrutting for all trenches excavated beyond 2m depth in all soils and for loose soils as per prevailing site conditions using country wood planks, necessary scantling, Nails, wedges including all labour and fabrication charges etc. complete. (2.50m to 6 m depth )	Sq.m	175.53	175.53	175.53
39	PWD 366 1.(k)	Supplying of PVC pipes 110mm dia with ISI monogram(working pressure 4kg/cm2)	R/M	172.80	172.80	172.80
40	PWD 366 1.(k)	Supplying of PVC pipes 110mm dia with ISI monogram(working pressure 6kg/cm2)	R/M	259.30	259.30	259.30
41	PWD 366 1.(l)	Supplying of PVC pipes 160mm dia with ISI monogram(working pressure 4kg/cm2)	R/M	357.00	357.00	357.00
42	PWD 366 1.(l)	supplying of PVC pipes 160mm dia with ISI monogram (working pressure 6kg/cm2)	R/M	506.00	506.00	506.00
43	PWD 366 1.(f)	Supplying of PVC pipes 50mm dia with ISI monogram(Working pressure 4kg/cm2)	R/M	55.10	55.10	55.10

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44	PWD 50	ORDINARY SOIL (SS20B) Earth work excavating and depositing on bank with initial lead of 10m & initial lift of 2m in <u>sand silt or other loose soil</u> wet sand or silt not under water light black cotton soil sandy loam and ordinary soil including excavated earth (SS20B)	CUM	56.10	56.10	56.10
45	PWD 50A	Sand and Silt under water (SS20B) Earth work excavating and depositing on bank with initial lead of 10m & initial lift of 2m in <u>slush &amp; silt under water</u> upto 0.75m depth requiring the aid of basket and vessels (SS20B)	CUM	70.20	70.20	70.20
46	PWD-F-87(1a)	Earth work in all soils expect medium rock/hard rock requiring blasting and conveying for formation of bund with lead of 0 to 100m depeloying <u>earth moving machinery</u> and tippers including benching formation of bunds breaking clods sectioning etc complete	CUM	3.60	3.60	3.60
47	PWD-F-89(a)	Earth work depeloying <u>earth moving machinery</u> for desilting channel and forming bund on either side and depositing the earth on banks including jungle clearance etc. complete - Having width upto 3M	CUM	26.85	26.85	26.85
48	PWD-F-90(b)	Earth work depeloying <u>earth moving machinery</u> for desilting channel and forming bund on either side and depositing the earth on banks including jungle clearance etc. complete - Having width of 3M - 10M	CUM	32.95	32.95	32.95
49	PWD-F-91(3)	Earth work excavation depeloying <u>earth moving machinery</u> for desilting channel having a width of more than 10m and forming bund on either side and depositing the earth on banks including jungle clearance etc. complete -	CUM	38.30	38.30	38.30
50	PWD 203	Stone ware pipe 150mm dia. (0.6 RM)	Each	100.00	100.00	100.00
51	Hire charges-2	Hire charges for diesel pumpset above 3Hp to 7.5Hp with fuel and crew charges including transportation	per hour	234.75	234.75	234.75

Superintending Engineer/SWDD