

Name of Work : CONSTRUCTION OF CGHS WELLNESS CENTRE AND ADMIN.BLDG. AT SECTOR-13, R.K.PURAM, NEW DELHI.

BOQ FOR INTERNAL & EXTERNAL PLUMBING & SANITATION WORKS								
SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
					<i>In Figures</i>	<i>In Words</i>	<i>In Figures</i>	<i>In Words</i>
1		SUB HEAD:- SANITARY INSTALLATIONS						
1.1	Derived from 17.7	Providing and fixing wash basin with C.I. brackets, a 15 mm CP pressmatic pillar tap (Pillar cock auto closing system), 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :						
1.1.1	Derived from 17.7.2	White Vitreous China Wash basin size 630x450 mm with a 15 mm dia CP pressmatic pillar tap (Pillar cock auto closing system) of approved make and design	EACH	12				
1.1.2	17.7.8	White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15 mm C.P. brass pillar taps with elbow operated levers .	EACH	4				
1.3	17.10	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :						
1.3.1	17.10.1	Kitchen sink with drain board						
1.3.1.1	17.10.1.3	510X1040mm bowl depth 200mm.	EACH	5				
1.3.2	17.10.2	Kitchen sink without drain board						
1.3.2.1	17.10.2.1	610X510 mm bowl depth 200mm.	EACH	7				
1.4	17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
1.4.1	17.28.2	Flexible Pipe						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.4.1.1	17.28.2.1	32mm Dia	EACH	12				
1.5	17.30	Providing and fixing in position 25 mm diameter mosquito proof coupling of approved municipal design.	EACH	2				
1.6	17.32	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :						
1.6.1	17.32.2	Rectangular shape 453x357 mm	EACH	26				
1.6.2	17.32.3	Oval shape 450x350 mm (outer dimensions)	EACH	6				
1.7	NDSR	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with frame made out of 50mmX 15mm 1st Class teak wood of approved design and shade with 6 mm thick hard board backing etc complete as per direction of Engineer -in Charge .	SQM	8				
1.8	17.34	Providing and fixing toilet paper holder.						
1.8.1	17.34.1	C.P brass	EACH	23				
1.9	17.35	Providing and fixing soil, waste and vent pipes :						
1.9.1	17.35.1	100 mm dia						
1.9.1.1	17.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS:3989.	METRE	839				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.10	17.36	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I./ C.I. Pipes :						
1.10.1	17.36.2	100 mm dia	EACH	20				
1.11	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc. :						
1.11.1	17.37.1	For 100 mm dia. Pipe	EACH	118				
1.12	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.						
1.12.1	17.38.1	100mm						
1.12.1.1	17.38.1.2	Sand Cast Iron S&S as per IS-3989	EACH	89				
1.13	17.39	Providing and fixing plain bend of required degree.						
1.13.1	17.39.1	100mm dia						
1.13.1.1	17.39.1.2	Sand cast iron S&S as per IS : 3989	EACH	71				
1.14	17.40	Providing and fixing heel rest sanitary bend						
1.14.1	17.40.1	100 mm dia						
1.14.1.1	17.40.1.2	Sand cast iron S&S as per IS - 3989	EACH	42				
1.15	17.42	Providing and fixing double equal plain junction of required degree.						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.15.1	17.42.1	100x100x100x100 mm						
1.15.1.1	17.42.1.2	Sand cast iron S&S as per IS - 3989	EACH	84				
1.16	17.43	Providing and fixing single equal plain junction of required degree with access door,insertion rubber washer 3mm thick,bolts and nuts complete						
1.16.1	17.43.1.2	Standard cast (spun) iron pipe IS-3989	EACH	131				
1.17	17.44	Providing and fixing single equal plain junction of required degree :						
1.17.1	17.44.1	100X100X100mm						
1.17.1.1	17.44.1.2	Sand cast iron S&S as per IS - 3989	EACH	65				
1.18	17.55	Providing and fixing door piece, insertion rubber washer 3mm thick, bolts & nuts complete :						
1.18.1	17.55.1	100 mm						
1.18.1.1	17.55.1.2	Sand cast iron S&S as per IS - 3989	EACH	136				
1.19	17.56	Providing and fixing terminal guard:						
1.19.1	17.56.1	100mm						
1.19.1.1	17.56.1.2	Sand cast iron S&S as per IS - 3989	EACH	39				
1.20	17.57	Providing and fixing collar.						
1.20.1	17.57.1	100mm						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.20.1.1	17.57.1.2	Centrifugally cast (spun) iron pipe S&S	EACH	81				
1.21	17.58	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter:						
1.21.1	17.58.1	For 100 mm dia. Pipe	EACH	975				
19.22	17.59	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter :						
1.22.1	17.59.1	For 100 mm dia. Pipe	EACH	62				
1.23	17.60	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :						
1.23.1	17.60.1	100mm inlet and 100mm outlet						
1.23.1.1	17.60.1.1	Sand cast iron S&S as per IS: 3989.	EACH	41				
1.24	17.65	Painting sand cast iron/ centrifugally cast (spun) iron soil, waste vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work :						
1.24.1	17.65.1	100mm diameter pipe	METRE	503				
1.25	17.70	Providing and fixing PTMT Bottle Trap for Wash basin and sink.						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.25.1	17.70.1	Bottle trap 31mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the center of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 260gms.	EACH	30				
1.25.2	17.70.2	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms.	EACH	20				
1.26	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	EACH	30				
1.27	17.72	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	EACH	14				
1.28	Derived from 17.78	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 2 litre/4 litre (adjustable to 3 litre/ 6 litres), including seat cover, and cistern fittings, nuts, bolts and gasket etc complete.	EACH	23				
1.29	17.80	Providing and fixing white vitreous china battery based infra red sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to all with suitable brackets all as per manufacturers specification and direction of Engineer-in-charge.	EACH	8				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.30	NDSR	Providing and fixing soil, waste and vent including all fittings (plain or door) e.g. bends, junctions, cowls, offsets, access pieces jointing with refined solvent joint (dripseal/pipeal) with 25mm deep drip seal joints including holder bat clamps of approved design to sand cast iron (spun) pipe embedded, cement concrete block 10x10x 10 cm of 1:2:4 (1 cement: 4 coarse sand: 4 graded stone aggregate 20 mm nominal size), cutting holes in wall and floors, excavation, refilling and disposal of surplus earth where required and marked good complete.						
1.30.1	NDSR	150mm dia cast (spun) iron S&S pipe	METRE	75				
1.31	NDSR	Providing and fixing on wall face/Concealed 160 mm unplasticised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . (class "B" - 6 Kg/cm2)	METRE	221.00				
1.32	NDSR	Providing and fixing on wall face/Concealed 200 mm unplasticised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . (class "B" - 6 Kg/cm2)	METRE	100.00				
1.33	NDSR	Providing and fixing on wall face/Concealed unplasticised - PVC moulded fittings/accessories for unplasticised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . DOOR TEE 200X 160 mm. (class "B" - 6 Kg/cm2)	EACH	10.00				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.34	NDSR	Providing and fixing on wall face/Concealed unplastised - PVC moulded fittings/accessories for unplastised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . TEE 200 x200x200mm. (class "B" - 6 Kg/cm2)	EACH	10.00				
1.35	NDSR	Providing and fixing on wall face/Concealed unplastised - PVC moulded fittings/accessories for unplastised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . Coupler 200 mm.	EACH	5.00				
1.36	NDSR	Providing and fixing on wall face/Concealed unplastised - PVC moulded fittings/accessories for unplastised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge .- Coupler 160 mm.	EACH	26.00				
1.37	NDSR	Providing and fixing on wall face/Concealed unplastised - PVC moulded fittings/accessories for unplastised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . Bend 200 mm.	EACH	20.00				
1.38	NDSR	Providing and fixing on wall face/Concealed unplastised - PVC moulded fittings/accessories for unplastised rigid PVC rain water pipes conforming to IS:4985 including jointing with adhesive as per manufacturer's specification and direction of Engineer-in-Charge . Bend 160 mm.	EACH	12.00				
1.39		Providing and fixing unplastised -PVC pipe clips of approved design to unplastised - PVC rain water pipes by means of 50X50X50 mm hard wood plugs / dash fastners of required size, screwed with MS screws including cutting and fixing with cement mortar 1:4 (1 cement : 4 coarse sand)making good the wall etc. complete.						
1.39.1	NDSR	200mm dia pipes	EACH	100.00				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
1.39.2	NDSR	160mm dia pipes	EACH	221.00				
1.40'	NDSR	Providing and fixing White Vitreous China (56 cm X 45 cm) Oval type wash basin with CP waste coupling of standard pattern, 32 mm dia C.P. cast brass bottle tarp & union, 32 mm dia C.P. pipe to wall and C.P. wall flange, complete including 15 mm dia CP pressmatic pillar tap (Pillar cock auto closing system) of approved make and design, cutting and making good the walls where required as per direction .	EACH	14				
1.41	NDSR	Providing & fixing 15mm dia C.P. ablution health faucet with 1.0m long SS extension pipe with wall hookn and oprating knob complete in all respect as directed by the Engineer-in-charge.	EACH	23				
1.42	NDSR	Providing and fixing horizontal type storage hot water heater within-built pressure relief valve, rated for inlet water pressure upto 6 bar complete in all respects of approved make and design including inlet, outlet connections, fixing bolts etc. and testing complete as per direction.						
1.42.1		Capacity 10 litres	EACH	6				
1.42.2		Capacity 15 litres	EACH	8				
1.42.3		Capacity 25 litres	EACH	5				
1.43	NDSR	Providing and fixing stainless steel fully automatic "No Touch" hand drier suitable to operate on 220 volts, single phase 50 hz., A.C. power supply of approved make and design .	EACH	12				
1.44	NDSR	Providing and fixing below counter installation type Drinking Water R.O. unit of approved make and design with micron filtration pre-treatment unit, skid mounted R.O. module with pressure pump and pressure tank, 6 m long food grade PP permeate line including connection to drinking water cooler, Coffee machine, complete in all respects.						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
		Capacity 25 litres	EACH	5				
		SANITARY INSTALLATIONS WORK :- Sub Head Total						
2	18	SUB HEAD:- WATER SUPPLY						
2.1	18.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.						
		Internal work -Exposed on Wall						
2.1.1	18.7.1	15 mm nominal outer dia pipes	METRE	216				
2.1.2	18.7.2	20 mm nominal outer dia pipes	METRE	191				
2.1.3	18.7.3	25 mm nominal outer dia pipes	METRE	192				
2.1.4	18.7.4	32 mm nominal outer dia pipes	METRE	142				
2.1.5	18.7.5	40 mm nominal outer dia pipes	METRE	85				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.1.6	18.7.6	50 mm nominal outer dia pipes	METRE	65				
2.2	18.8	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.						
		concealed work including cutting chases and making good the wall etc.						
2.2.1	18.8.1	15 mm nominal outer dia pipes	METRE	359				
2.2.2	18.8.2	20 mm nominal outer dia pipes	METRE	83				
2.2.3	18.8.3	25 mm nominal outer dia pipes	METRE	69				
2.2.4	18.8.4	32 mm nominal outer dia pipes	METRE	60				
2.3	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement ,trenching ,refilling & testing of joints complete as per direction of Engineer in Charge.						
		External work						
2.3.1	18.9.3	25 mm nominal outer dia.	METRE	75				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.3.2	18.9.4	32 mm nominal outer dia.	METRE	55				
2.3.3	18.9.6	50 mm nominal outer dia.	METRE	375				
2.4	18.10	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc.						
		Internal work – Exposed on wall.						
2.4.1	18.10.1	15 mm dia. nominal bore	METRE	50				
2.4.2	18.10.2	20 mm dia. nominal bore	METRE	40				
2.4.3	18.10.3	25 mm dia. nominal bore	METRE	25				
2.4.4	18.10.4	32 mm dia. nominal bore	METRE	15				
2.4.5	18.10.5	40 mm dia. nominal bore	METRE	45				
2.4.6	18.10.6	50 mm dia. nominal bore	METRE	115				
2.5	18.12	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc.						
2.5.1	18.12.6	50 mm dia, nominal bore	METRE	15				
2.5.2	18.12.7	65 mm dia, nominal bore	METRE	115				
2.5.3	18.12.8	80 mm dia, nominal bore	METRE	95				
2.6	18.13	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.6.1	18.13.2	50 to 80 mm nominal bore	EACH	2				
2.6.2	18.14	Fixing water meter and stop cock in G.I. pipe line including cutting and threading the pipe and making long screws etc. complete (cost of water meter and stop cock to be paid separately).	EACH	1				
2.7	18.15	Providing and fixing brass bib cock of approved quality :						
2.7.1	18.15.2	20 mm nominal bore	EACH	4				
2.8	18.16	Providing and Fixing brass stop cock of approved quality						
2.8.1	18.16.1	15 mm nominal bore	EACH	48				
2.8.2	18.16.2	20 mm nominal bore	EACH	2				
2.9	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :						
2.9.1	18.17.1	25 mm nominal bore	EACH	4				
2.9.2	18.17.2	32 mm nominal bore.	EACH	2				
2.9.3	18.17.3	40 mm nominal bore	EACH	2				
2.9.4	18.17.4	50 mm nominal bore	EACH	2				
2.9.5	18.17.5	65 mm nominal bore	EACH	2				
2.9.6	18.17.6	80 mm nominal bore	EACH	2				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.10	18.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :						
2.10.1	18.19.4	50 mm nominal bore						
2.10.1.1	18.19.4.2	Vertical	EACH	1				
2.10.2	18.19.5	65 nominal bore						
2.10.2.1	18.19.5.2	Vertical	EACH	2				
2.10.3	18.19.6	80 nominal bore						
2.10.3.1	18.19.6.2	Vertical	EACH	2				
2.11	18.21	Providing and fixing uplasticised PVC connection pipe with brass unions :						
2.11.1	18.21.2	45 cm length						
2.11.1.1	18.21.2.1	15 mm nominal bore	EACH	79				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.12	18.32	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12mm thick, finished with a floating coat of neat cement complete as per standard design :						
2.12.1	18.32.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	EACH	10				
2.13	18.33	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design :						
2.13.1	18.33.1	With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	EACH	2				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.14	18.34	Constructing masonry Chamber 90X90X100 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with channel lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1:5:10 (1 cement : 5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement: 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design:						
2.14.1	18.34.1	With F.P.S. bricks	EACH	2				
2.16	18.40	Painting G.I. pipes and fittings with two coats of anti-corrosive bitumastic paint of approved quality :						
2.16.1	18.40.1	15 mm diameter pipe	METRE	50				
2.16.2	18.40.2	20 mm diameter pipe	METRE	40				
2.16.3	18.40.3	25 mm diameter pipe	METRE	25				
2.16.4	18.40.4	32 mm diameter pipe	METRE	15				
2.16.5	18.40.5	40 mm diameter pipe	METRE	45				
2.16.6	18.40.6	50 mm diameter pipe	METRE	130				
2.16.7	18.40.7	65 mm diameter pipe	METRE	115				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.16.8	18.40.8	80 mm diameter pipe	METRE	95				
2.17	18.41	Providing and filling sand of grading zone V or coarser grade, allround the G.I. pipes in external work :						
2.17.1	18.41.2	25 mm nominal outer dia.	METRE	45				
2.17.2	18.41.4	32 mm nominal outer dia .Pipes	METRE	30				
2.17.3	18.41.6	50 mm nominal outer dia.	METRE	265				
2.17.4	18.41.7	65 mm nominal outer dia.	METRE	25				
2.17.5	18.41.8	80 mm nominal outer dia.	METRE	30				
2.18	18.48	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Per litre	50000				
2.19	18.49	Providing and fixing C.P. brass bib cock of approved quality confirming to IS:8931						
2.19.1	18.49.1	15mm nominal bore	EACH	30				
2.20	18.51	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.						
2.20.1	18.51.1	15 mm nominal bore	EACH	12				
2.21	18.52	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.						
2.21.1	18.52.1	15 mm nominal bore	EACH	22				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.22	18.53	Providing and fixing C.P brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						
2.22.1	18.53.1	15 mm nominal bore	EACH	79				
2.23	18.58	Providing and fixing PTMT grating of approved quality and colour						
2.23.1	18.58.1	Circular type						
2.23.1.1	18.58.1.1	100 mm nominal dia	EACH	16				
2.23.1.2	18.58.1.2	125 mm nominal dia with 25 mm waste hole	EACH	41				
2.24	NDSR	Providing and fixing G.I. Inlet fitting of suitable size with 2 & 3 Nos. G.I. Socket 32 & 40 welded G.I. pipe and dipped in hot bitumen complete in all respect.						
2.24.1		100 mm diameter pipe (Hopper)	EACH	41				
2.25	NDSR	Providing and fixing gun metal non- return valve of approved quality (PN 1.6)						
2.25.1		100 mm dia nominal bore	EACH	1				
2.26	NDSR	Providing and fixing GI pipes medium class conforming to IS 1239 with GI fittings including cutting hole chase painted with primer, two coats of enamel paints etc						
2.26.1		100 mm dia, NB	EACH	25				
2.26.2		80 mm dia, NB	EACH	45				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.27	NDSR	Supply, installation, testing and commissioning of Towel rail 300 mm long (Make: Jaquar, Cat No- 1111N or equivalent) with brackets fixed to wooden cleats with C.P. brass screws.		5				
2.28	NDSR	Providing & fixing of C.P. brass Kitchen Sink mixer with C.P. wall flange, spout complete as required.	EACH	5				
2.29	Derived from DSR	Providing & fixing C.P. pressmatic pillar Taps(Pillar cock auto closing system) of approved make and design as per direction of Engineer - in charge.	EACH	15				
2.30'	Derived from DSR	Deduct for not providing & fixing 15 mm. C. P. Brass Pillar Taps as per direction of Engineer - in charge.	EACH	30				
2.31	NDSR	Providing & fixing C.I. 'Y' Strainer (screwed/ flanged) with stainless steel fine wire mesh perforated sheet basket with necessary flange/ unions nuts, bolts and washers complete as required.						
2.31.1	NDSR	100 mm dia	EACH	2				
2.31.2	NDSR	150 mm dia	EACH	2				
2.32	NDSR	Providing and fixing suitable G.I. vent pipe upto 1m high Class-B (medium quality) with fittings complete as per drawing and as directed.						
2.32.1	NDSR	100 mm dia	METRE	5				
2.33	NDSR	Providing and fixing gun metal foot valve with stainer of approved quality model complete in all respect						
2.33.1	NDSR	80 mm dia	EACH	1				
2.33.2	NDSR	100 mm dia	EACH	1				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.34	NDSR	Providing and fixing in position of approved quality G.M. float valve with copper ball float and brass rods of required length suitable for pressure of 10 Kg/sqcm of the following sizes:						
2.34.1	NDSR	50 mm dia	EACH	1				
2.35	NDSR	Testing Underground tank for water seepage before fixing of tiles or any other finishing including pressure grouting (if required). The tank should be disinfected and cleaned before use as per instruction of Engineer-in-charge	Set	3				
2.36	NDSR	Providing and fixing floor drain & balcony drain made of 100 x 50 dia elbow / tee as applicable connected with 50 dia GI pipe painted with primer, two coats of black bituminastic paint, wrapping 1 mm thick PVC tape and final coat of black bituminastic paint B109 complete in all complete including cutting and making good the walls and floor wherever required	EACH	16				
2.37	NDSR	Providing and fixing flanged cleanout plug with M.S. flanged tail pieces, blind flange, 6mm dia nut & bolts, gasket and washers fixed to C.I. Pipe with drip seal joint complete in all complete including cutting and making good the walls and floor wherever required						
2.37.1		with 100 mm dia. Pipe	EACH	29				
2.38	NDSR	Providing and fixing 100mm diameter C.P. Brass cleanout plug with M.S. flanged tail pieces, 6mm dia nut & bolts, gasket and washers fixed to C.I. Pipe with drip seal joint complete in all complete including cutting and making good the walls and floor wherever required.						
2.38.1		with 100 mm dia. Pipe	EACH	2				
2.39	NDSR	Providing and fixing brass ball valve with SS 304 Stem and ball, teflon seat complete (PN-16).						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.39.1	NDSR	15 mm dia nominal bore	EACH	42				
2.39.2	NDSR	20 mm dia nominal bore	EACH	55				
2.39.3	NDSR	25 mm dia nominal bore	EACH	36				
2.40	NDSR	Providing, fixing, testing and commissioning of motorised butterfly valve of following dia for filling of overhead water tank complete with high and low level control switches to control tanks. The level controllers shall be installed in overhead tanks. The level switch will close the valve when water level is high in overhead tank and open the valve when overhead water tank level is low. The system should be complete in all respects with accessories 220 V AC / 2 V DC, IP67 electrical water level control unit, copper control wiring in whether proof casing etc.						
2.40.1		50 mm dia NB Float Valve	Set	1				
2.41	NDSR	Making 50mm Dia. water connection with excavation & back filling, cutting and making good of existing water supply line etc. complete.	EACH	1				
2.42	NDSR	Supply and installation of Butterfly Valves with mating flanges generally as specified all complete. PN 1.6						
2.42.1	NDSR	65 mm dia nominal bore	EACH	8				
2.42.2	NDSR	80 mm dia nominal bore	EACH	10				
2.42.3	NDSR	100 mm dia nominal bore	EACH	2				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
2.43	NDSR	Providing & fixing schedule puddle flanges made of heavy class M.S. pipe minimum 700 mm long, both side threading upto 50 mm dia pipe and one side threaded and other side flanged for 63dia and above sizes with epoxy coating. M.S. Plate 230 x 230 x 6 mm shall be used for pipe size upto 50 mm dia, 300 x 300 x 6 mm M.S. plate shall be used upto 80 mm dia pipe, 400 x 400 x 6 mm M.S. plate shall be used upto 250 mm dia pipe, 450 x 450 x 6 mm M.S. plate shall be used upto 350 mm dia pipe. (Length of pipe shall be increase in some cases).						
2.43.1	NDSR	25 mm dia nominal bore	EACH	20				
2.43.2	NDSR	50 mm dia nominal bore	EACH	10				
2.43.3	NDSR	65 mm dia nominal bore	EACH	4				
2.43.4	NDSR	80 mm dia nominal bore	EACH	2				
2.43.5	NDSR	100 mm dia nominal bore	EACH	15				
2.43.6	NDSR	150 mm dia nominal bore	EACH	2				
		WATER SUPPLY WORK :- Sub Head Total						
3		SUB HEAD:- DRAINAGE						
3.1	19.1	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.1.1	19.1.2	150 mm diameter	METRE	25				
3.1.2	19.1.4	250 mm diameter	METRE	235				
3.2	19.2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design :						
3.2.1	19.2.2	150 mm diameter S.W. pipe	METRE	25				
3.2.2	19.2.4	250 mm diameter S.W. pipe	METRE	235				
3.3	19.4	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design :						
3.3.1	19.4.2	150 x 100 mm size P type						
3.3.1.1	19.4.2.2	With sewer bricks conforming to IS : 4885	EACH	4				
3.3.2	19.4.3	180x150 mm size P type						
3.3.2.1	19.4.3.2	With Sewer bricks conforming to IS : 4885	EACH	6				
3.4	19.6	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :						
3.4.1	19.6.2	150mm dia RCC Pipe	METRE	15				
3.4.2	19.6.3	250 mm dia RCC pipe	METRE	68				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.4.3	19.6.4	300 mm dia RCC pipe	METRE	50				
3.4.4	19.6.5	450 mm dia RCC pipe	METRE	25				
3.5	19.7	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :						
	Derived from 19.7.3	Inside size 120 x 90 cm and 90 cm deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :						
3.5.1	19.7.3.2	With Sewer bricks conforming to IS : 4885	EACH	3				
3.6	19.8	Extra for depth for manholes						
3.6.1	19.8.2	Size 120 x 90 cm						
3.6.1.1	19.8.2.2	With Sewer bricks conforming to IS : 4885	METRE	1				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.7	19.9	Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :						
3.7.1	19.9.1	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :						
3.7.1.1	19.9.1.2	With Sewer bricks conforming to IS : 4885	EACH	4				
3.8	19.10'	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m to 1.67m						
3.8.1	19.10.2	With Sewer bricks conforming IS : 4885	METRE	2				
3.9	19.11	Constructing brick masonry circular manhole 1.22m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12mm thick with cement mortar 1:3 (1 cement :3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.9.1	19.11.1	1.68 m deep with SFRC Cover and frame (heavy duty HD 20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :						
3.9.1.1	19.11.1.2	With Sewer bricks conforming IS : 4885	EACH	6				
3.10	19.12	Extra depth for circular type manhole 1.22m internal dia (at bottom) beyond 1.68 m to 2.29 m :						
3.10.1	19.12.2	With Sewer bricks conforming IS : 4885	METRE	2				
3.11	19.13	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :						
3.11.1	19.13.1	2.30 m deep with SFRC Cover and frame (heavy duty HD 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for separately) :						
3.11.1.1	19.13.1.2	With Sewer bricks conforming to IS : 4885	EACH	2				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.12	19.14	Extra depth for circular type manhole 1.52m internal dia (at bottom) beyond 2.3m						
3.12.1	19.14.2	With Sewer bricks conforming IS : 4885	METRE	1				
3.13	19.16	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910, on 12 mm dia steel bar conforming to IS : 1786, having minimum cross section as 23 mmx25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15 cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete as per design.	EACH	90				
3.14	19.18	Supplying and fixing C.I. cover without frame for manholes :						
3.14.1	19.18.3	560 mm diameter C.I. cover (heavy duty) the weight of the cover to be not less than 108 kg	EACH	10				
3.15	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality						
3.15.1	19.19.3	H D - 20						
3.151.1	19.19.3.1	Circular shape 560 mm internal diameter	EACH	15				
3.16	NDSR	Providing & fixing SFRC Cover and frame (heavy duty HD 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. as per direction	EACH	10				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
3.17	19.21	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :						
3.17.1	19.21.2	for pipes 250 to 300mm dia.	EACH	2				
3.18	19.27	Constructing brick masonry road gully chamber 50x45x60 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame complete as per standard design :						
3.18.1	19.27.1	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	EACH	8				
3.19	19.29	Constructing brick masonry road gully chamber 110x50x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame and vertical grating complete as per standard design :						
3.19.1	19.29.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	EACH	10				
3.20	NDSR	Providing and fixing 100 mm dia Pressure Gauges on sump pumps	Nos.	2				
		DRAINAGE WORK :- Sub Head Total						
4	24	SUB HEAD : RAIN WATER HARVESTING & TUBEWELL						

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
4.1	24.1	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, upto 90 metre depth below ground level.						
4.1.1	24.1.1	All types of soil						
4.1.1.1	24.1.1.2	350 mm dia.	METRE	160				
4.1.2	24.1.2	Rocky strata including Boulders						
4.1.2.1	24.1.2.2	350 mm dia.	METRE	30				
4.2	24.2	Boring/drilling bore well of required dia for casing/ strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.						
4.2.1	24.2.1	All types of soil						
4.2.1.1	24.2.1.2	350 mm dia.	METRE	60				
4.2.2	24.2.2	Rocky strata including Boulders						
4.2.2.1	24.2.2.2	350 mm dia.	METRE	20				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
4.3	24.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.						
4.3.1	24.3.2	150 mm nominal size dia.	METRE	80				
4.4	24.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.						
4.4.1	24.4.2	150 mm nominal size dia.	METRE	20				
4.5	24.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	CUM	6				
4.6	24.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	CUM	6				
4.7	24.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer –in-charge.	CUM	6				
4.8	24.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge.	CUM	25				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
4.9	24.9	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four no longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 50 mm x 1.6 mm complete, all as per direction of Engineer-in-charge.	EACH	250				
4.10	24.10	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 mild steel screwed and socketed/ plain ended casing pipes of required dia, conforming to IS: 4270, of reputed & approved make, including painted with outside surface with two coats of anticorrosive paint of approved brand and manufacture, including required hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer-in-charge.						
4.10.1	24.10.2	150 mm nominal size dia having minimum wall thickness 5.00 mm.	METRE	130				
4.11	24.11	Supplying, assembling, lowering and fixing in vertical position in bore well, ERW (Electric Resistance Welded) FE 410 plain slotted (having slot of size 1.6/3.2 mm) mild steel threaded and socketed /plain bevel ended pipe (type A) of required dia, conforming to IS:8110, of reputed and approved make, having wall thickness not less than 5.40 mm, including painted with outside surface with two coats of anticorrosive bitumestic paint of approved brand and manufacture,including hire & labour charges, fittings & accessories, all complete, for all depths, as per direction of Engineer -in-charge.						
4.11.1	24.11.2	150 mm nominal size dia	METRE	20				

SL. NO.	DSR 2012/ NDSR	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	RATE (Rs.)	AMOUNT (Rs.)	AMOUNT (Rs.)
4.12	24.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	HOUR	24				
4.13	24.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.						
4.13.1	24.14.2	150 mm clamp	EACH	3				
4.14	24.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).						
4.14.1	24.15.2	150 mm dia	EACH	3				
		RAIN WATER HARVESTING & TUBEWELLWORK :- Sub Head Total						