

Jabalpur Smart City Limited**Name of Work :- COMMUNITY MARRIAGE PLACE, Medical Bus stand, JABALPUR****COST SUMMARY**

SI No	Heading Description	Amount
1	EARTHWORK	524000.00
2	CONCRETE WORK CEMENT CONCRETE (CAST-IN-SITU)	1278949.71
3	REINFORCED CEMENT CONCRETE	14755877.17
4	BRICK WORK	1330816.98
5	WOOD, PVC WORK AND STEEL WORK	189430.51
6	FLOORING	4004658.96
7	FINISHING	904323.72
8	DISMANTLING AND DEMOLISHING	197775.00
9	ALUMINIUM WORK	205445.38
10	WATER PROOFING	70878.24
11	HORTICULTURE & LANDSCAPING	847697.21
12	BUILDING WATER SUPPLY	12600.00
13	SANITARY INSTALLATION	100300.50
	TOTAL OF CIVIL & ALLIED WORK	24422753.38
14	PLUMBING, DRAINAGE AND SANITATION	2250188.09
15	ELECTRICAL WORKS	60,43,878.90
	GRAND TOTAL	32716820.37

SAY RS**3.28 CRORES**

CMH - Jabalpur Smart City Limited - CIVIL

CMH - BOQ Abstract

Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
2.8.1	1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil.	Cum	1751.48	129.00	116.10	203346.43
2.26.1	2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.All kinds of soil	Cum	372.94	24.00	21.60	8055.43
2.25	3	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1050.89	59.00	53.10	55802.04
2.26	4	Extra for every additional lift of 1.5 m or part thereof in.					
2.26.1		in All kinds of soil	Cum	223.76	24.00	21.60	4833.26
2.27	5	Supplying and filling in plinth under floors including, watering, ramming consolidating and dressing complete.					
2.27.1		Crusher Stone Dust	Cum	62.16	628.00	565.20	35130.64
1	6	Loading and unloading of stone boulder / stone aggregates / sand / kanker / moorum. (Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip)(Volume to be computed as per provisions of IS:1200.					
1.2		Transportation rate of different other material in comparison with 20 mm metal.					
		Excavated Earth					
		For a lead upto 5 Km.	Cum	111.98	127.50	114.75	12850.11
		For a lead upto 6 Km.	Cum	207.97	135.00	121.50	25268.29
		For a lead upto 7 Km.	Cum	319.95	142.50	128.25	41033.98
		For a lead upto 8 Km.	Cum	159.98	150.00	135.00	21596.83
		For a lead upto 9 Km.	Cum	399.94	157.50	141.75	56691.68
		For a lead upto 10 Km.	Cum	399.94	165.00	148.50	59391.29
		SUB TOTAL					524000.00
	B	CONCRETE WORK CEMENT CONCRETE (CAST-IN-SITU)					
4.1.5	3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level.Cement concrete grade M-10 (Nominal Mix) with 40 mm maximum size of stone aggregate	Cum	402.79	3528.00	3175.20	1278949.71
		SUB TOTAL					1278949.71
	C	REINFORCED CEMENT CONCRETE					
5.1.1	4	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering,finishing and reinforcement - All work up to plinth level :Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	Cum	36.70	4728.00	4255.20	156150.31
5.2.1	5	Reinforced cement concrete work in walls (any thickness),including attached pilasters, buttresses, plinth and string courses,fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor two level excluding cost of centering, shuttering, finishing and reinfor cement. Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.	Cum	192.31	5050.00	4545.00	874052.81
5.4	6	Providing and laying up to floor two level reinforced cement concrete in kerbs, steps and the like excluding the cost of centering, shuttering, finishing and reinforcement with Cement concrete grade M-20 (Nominal Mix with 20 mm maximum size of stone aggregate)	Cum	13.81	4863.00	4376.70	60431.81

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	A	EARTHWORK					
5.20.6	7	Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.Thermo-Mechanically Treated bars.	kilogram	147411.90	60.00	54.00	7960242.60
5.31	8	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including 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 Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete. All work up to floor 2 level.	Cum	961.98	5245.00	4720.50	4541032.39
20.1.1	9	Centering and shuttering including strutting, propping etc.and removal of form for :Foundations, footings, bases of columns, etc. For mass concrete.	Sqm	734.09	138.00	124.20	91174.44
20.1.2	10	Centering and shuttering including strutting, propping etc.and removal of form for :Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	Sqm	178.56	216.00	194.40	34712.45
20.1.3	11	Centering and shuttering including strutting, propping etc.and removal of form for :Suspended floors, roofs, landings, balconies and access platform.	Sqm	1628.41	227.00	204.30	332684.91
20.1.5	12	Centering and shuttering including strutting, propping etc.and removal of form for :Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	2320.82	203.00	182.70	424014.41
20.1.6	13	Centering and shuttering including strutting, propping etc.and removal of form for :Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	899.58	282.00	253.80	228313.62
20.1.7	14	Centering and shuttering including strutting, propping etc.and removal of form for :Stairs, (excluding landings) except spiral-staircases.	Sqm	212.10	278.00	250.20	53067.42
		SUB TOTAL					14755877.17
	D	BRICK WORK					
6.3.1	15	Brick work with chimney brick of class designation 40 in superstructure above plinth level upto floor 2 level including the cost of scaffolding in :Cement mortar 1:4(1 cement : 4 coarse sand)	Cum	325.20	4547.00	4092.30	1330816.98
		SUB TOTAL					1330816.98
	E	WOOD, P.V.C. WORK AND STEEL WORK					
9.1.1	16	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position :Second class teak wood	Cum	0.31	83137.00	74823.30	23344.87
9.5.1.1	17	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S butt hinges with necessary screws excluding,panelling which will be paid for separately.Second class teak wood 35 mm thick shutters	Sqm	25.20	2290.00	2061.00	51937.20
9.48.2	18	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.Fixed to openings /wooden frames with rawl plugs screws etc.	Kg	388.80	87.00	78.30	30443.04
9.88	19	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc. complete (best make of approved quality).	Each	12.00	667.00	600.30	7203.60
9.90.2	20	Providing and fixing special quality chromium plated brass cupboard locks with six levers including necessary screws etc. complete (Best make of approved quality) of :Size 50 mm	Each	12.00	152.00	136.80	1641.60
9.92.1	21	Providing and fixing chromium plated brass handles with necessary screws etc. complete:125 mm	Each	24.00	212.00	190.80	4579.20

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Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
9.96.2	22	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS :1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :250x16 mm	Each	12.00	165.00	148.50	1782.00
9.97.3	23	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :200x10 mm	Each	24.00	67.00	60.30	1447.20
9.98	24	Providing and fixing aluminium pull bolt lock anodised ISI marked (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws bolts, nut and washers etc. complete.	Each	5.00	83.00	74.70	373.50
9.101.1	25	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.Single rubber stopper	Each	12.00	24.00	21.60	259.20
10.6	26	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by and locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing necessary 27.5cm long wire springs grade No.2 and M.S. top cover of required thickness for rolling shutters.					
10.6.1		80x1.25mm M.S. laths with 1.25 mm thick top cover.	SqM	21.00	1919.00	1727.10	36269.10
10.25	27	Steel work welded in built up sections/ framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
10.25.2		In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.	Kg	500.00	67.00	60.30	30150.00
		SUB TOTAL					189430.51
	F	FLOORING					
11.4	28	52 mm thick cement concrete flooring with concrete hardener topping under layer 40 mm thick cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume .hardening compound is mixed @ 2 litre per 50 kg of cement or as per manufacturers specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	2340.07	347.00	312.30	730803.86
11.8	29	Extra for making chequers of approved pattern on cement concrete floors, steps, landing, pavements etc.	Sqm	2340.07	16.00	14.40	33697.01
11.20.4	30	Chequerred precast cement concrete tiles 18-20mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).Ordinary cement without any pigment.	Sqm	519.04	565.00	508.50	263931.84
11.26	31	Kota stone slab 25mm thick flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar (1 cement : 4 coarse sand) 1 : 4 (minimum size of kota stone 0.25 sqm)	Sqm	1931.92	819.00	737.10	1424018.23

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Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
11.27	32	Kota stone slabs 25mm thick in risers of steps, skirting,dado and pillars laid on 12mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	Sqm	25.70	821.00	738.90	18989.73
11.34	33	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS :15622 (6 to 7mm thick) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in- Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	Sqm	193.40	686.00	617.40	119405.16
LMR	34	Providing and laying Vitrified anti skid floor tiles of size 300x300 mm (thickness to be specified by the manufacturer),with water absorption less than 0.08% and conforming to IS: 15622, of approve make, in colours and shades, laid on 20 mm thick cement mortar 1:4(1 Cement : 4 Coarse sand), jointing with grey cement slurry @3.3kg/sqm including grouting the joints with white cement and matching pigment etc. complete.	Sqm	104.19	1014.81	913.32	95159.32
11.39.4	35	Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete.Size of Tile 100x100 cm x 10 mm	Sqm	227.00	1834.00	1650.60	374686.20
11.46	36	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine ith strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50 mm thick compacted bed of course sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	1046.21	454.00	408.60	427481.41
DSR 2016.Ref No:8.12	37	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-incharge. a. Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	Sqm	198.72	2887.85	2599.07	516486.20
		SUB TOTAL					4004658.96
	G	FINISHING					
13.1.1	39	12 mm cement plaster of mix :1:4 (1 cement: 4 fine sand)	Sqm	929.38	108.00	97.20	90335.52
13.2.1	40	15mm cement plaster on the rough side of single or half brick wall of mix :1:4 (1 cement: 4 fine sand)	Sqm	2536.70	127.00	114.30	289944.98
13.16.1	41	6 mm cement plaster of mix :1:3 (1 cement: 3 fine sand)	Sqm	3629.10	83.00	74.70	271093.99
13.42.1	42	Distemping with 1st quality acrylic washable distemper (ready mixed) of approved manufacturer and of required shade and colour complete. as per manufacturer's specification.Two or more coats on new work.	Sqm	1323.34	29.00	26.10	34539.12

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CMH - BOQ Abstract

Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
13.43.1	43	Applying one coat of cement primer of approved brand and manufacture on wall surface :Cement primer.	Sqm	5837.42	22.00	19.80	115580.87
13.47.1	44	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade New work (Two or more coats applied @ 1.43 ltr/ 10 sqm. over and including base coat of water proofing cement paint applied @ 2.20 kg/10 sqm).	Sqm	1457.50	76.00	68.40	99692.93
13.61.1	45	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two or more coats on new work	Sqm	25.92	45.00	40.50	1049.76
13.69.1	46	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :New work	Sqm	50.40	46.00	41.40	2086.56
		SUB TOTAL					904323.72
	H	DISMANTLING AND DEMOLISHING					
15.2.2	47	Demolishing cement concrete manually/by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-in-charge.1:4:8 or leaner mix	Cum	750.00	293.00	263.70	197775.00
		SUB TOTAL					197775.00
	I	ALUMINIUM WORK					
17.1.1.2	48	Providing and fixing aluminium work for doors, windows,ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS : 1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions,at top, bottom and sides with required PVC/neoprene felt etc.Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle,Aluminium snap beading for glazing / paneling, C.P. brass /stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and paneling to be paid for separately) :For fixed portionPowder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	207.36	366.00	329.40	68304.38
17.1.2.2	49	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (Fittings shall be paid for separately).Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	259.20	388.00	349.20	90512.64
17.3.2	50	Providing and fixing glazing in aluminium door, window,ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in- charge (Cost of aluminium snap beading shall be paid in basic item):With float glass panes of 5.50 mm thickness	Sqm	25.92	859.00	773.10	20038.75
17.4.1	51	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-incharge.	Each	12.00	1979.00	1781.10	21373.20
17.8	52	Filling the gap in between aluminium frame & adjacent RCC/Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete.	Meter	84.00	69.00	62.10	5216.40
		SUB TOTAL					205445.38
	J	WATER PROOFING					

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Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
18.5	53	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours.The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	Sqm	59.37	193.00	173.70	10312.17
DSR 2016 /Ref .22.23.1	54	Providing and applying integral crystalline slurry of hydrophilic in nature forwaterproofing treatment to the RCC structures like retaining walls of the basement,water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 partsintegral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 partsintegral crystalline slurry : 1 part water) for horizontal surfaces and applying thesame from negative (internal) side with the help of synthetic fiber brush. The materialshall meet the requirements as specified in ACI-212-3R-2010 i.e by reducingpermeability of concrete by more than 90% compared with control concrete as perDIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystallineslurry shall be capable of self-healing of cracks up to a width of 0.50mm. The workshall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against anyleakage.For vertical surface two coats @0.70 kg per sqm	Sqm	89.70	468.10	421.29	37790.13
DSR 2016 /Ref .22.23.2	55	Providing and applying integral crystalline slurry of hydrophilic in nature forwaterproofing treatment to the RCC structures like retaining walls of the basement,water tanks, roof slabs, podiums, reservoir, sewage& watertreatment plant, tunnels/ subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 partsintegral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 partsintegral crystalline slurry : 1 part water) for horizontal surfaces and applying thesame from negative (internal) side with the help of synthetic fiber brush. The materialshall meet the requirements as specified in ACI-212-3R-2010 i.e by reducingpermeability of concrete by more than 90% compared with control concrete as perDIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystallineslurry shall be capable of self-healing of cracks up to a width of 0.50mm. The workshall be carried out all complete as per specification and the direction of the engineerin-charge. The product performance shall carry guarantee for 10 years against anyleakage.For horizontal surface one coat @1.10 kg per sqm.	Sqm	69.84	362.35	326.12	22775.94
		SUB TOTAL					70878.24
	K	HORTICULTURE & LANDSCAPING					
19.1	56	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of by spreading and neatly levelling with in a lead of 50m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	Cum	598.26	129.00	116.10	69458.37

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	A	EARTHWORK					
19.2	57	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	Cum	332.37	184.00	165.60	55040.23
19.3	58	Supplying and stacking sludge at site including royalty and carriage up to 1 km (sludge measured in stacks will be reduced by 8% for payment).	Cum	199.42	162.00	145.80	29075.60
19.4.2	59	Supplying and stacking at site dump manure from approved source,including carriage up to 1 km (manure measured in stacks will be reduced by 8% for payment)Screened through sieve of I.S. designation 16mm	Cum	66.47	115.00	103.50	6880.03
19.5	60	Rough dressing the trenched ground including breaking clods.	100sqm	997.11	42.00	37.80	37690.59
19.6	61	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.	100sqm	997.11	137.50	123.75	123391.81
19.7	62	Fine dressing the ground	100sqm	997.11	103.00	92.70	92431.69
19.8	63	Spreading of sludge, dump manure or/and good earth in required thickness (Cost of sludge, dump manure or/ and good earth to be paid separately).	Cum	598.26	15.00	13.50	8076.56
19.9	64	Mixing earth and sludge or manure in proportion specified or directed.	Cum	598.26	102.00	91.80	54920.57
19.14.1	65	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :Holes 1.2 m dia and 1.2 m deep.	Each	75.00	182.00	163.80	12285.00
19.15.1	66	Half brick circular tree guard in 50 class designation bricks, internal diameter 1.25 meter and height 1.2 meter above ground and 0.20 m below ground bottom two courses laid dry and top three courses in cement mortar 1:6 (1 cement : 6 fine sand) and the intermediate courses being in dry honey comb masonry as per design complete:With Chimney Bricks	Each	15.00	1511.00	1359.90	20398.50
LMR	67	Providing & laying Buffalo grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden and than rolling the surface with light roller make the surface smoothen and light watering the same, with sprinkler and maintenance for 30 days or more till the grass established properly as per direction of officer in charge	Sqm	997.11	280.55	252.49	251763.01
DSR 2016.Ref No:30.2.5 4	68	Anti termite treatment by digging holes 30 cm deep and 4 cm dia, 6 to 7 holes around the tree using chemical emulsion at the rate of 1.5 liter per hole in two time or more application to get the trees free from termite infection chemicals used Chlorpyrifos 20% EC in the ratio of 1% concentration and as per direction of officer-in-charge.	Each	75.00	47.60	42.84	3213.00
DSR 2016.Ref No:30.2.5 6	69	Anti termite treatment of lawn area through premise 30.50% I P. one liter premise diluted in 499 liters water and applying solution @ 1.00 litre solution per sqm lawn or bed area.(two application) i/c cost of chemical)and as per direction of officer-in-charge.	Sqm	997.11	7.05	6.35	6326.63
DSR 2016.Ref No:30.2.5 7.1	70	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unsaverieable material?s as per direction of officer in charge (excluding cast of plant & water)Cost of plantation per trees plants (for 100 nos.=427.45/100)	Each	15.00	4.25	3.83	57.38
DSR 2016.Ref No:30.2.5 7.2	71	Plantation of Trees, Shrubs, and Hedge at site i/c watering and removal of unsaverieable material?s as per direction of officer in charge (excluding cast of plant & water)Cost of plantation per Shrubs plants (for 200 nos.=427.45/200)	Each	60.00	2.15	1.94	116.10

CMH - Jabalpur Smart City Limited - CIVIL

CMH - BOQ Abstract

Ref No.	Sl. No.	Description	Unit	Quantity	Rate	Reduce Rates	Reduced Amount
	A	EARTHWORK					
LMR	72	Supply and stacking of Plumeria alba plant of height 165-180 cm. with 3-4 branches and thick stem in big size HDPE bags as per direction of the officer-in-charge	Each	15.00	261.34	235.20	3528.06
LMR	73	Supply and stacking of plant Nerium oleander (kaner) of height 60-75 cm. with 5-6 branches in poly bags of size 25 cm as per direction of the officer-in-charge.	Each	60.00	46.46	41.81	2508.84
19.20	74	Filling mixture of earth and sludge or manure in the desired proportion in trenches, flooding with water and leveling (cost of supplying earth and sludge or manure and mixing excluded).	Cum	119.65	5.00	4.50	538.44
19.24	75	Flooding the ground with water including making kiaries and dismantling the same.	100sqm	997.11	78.00	70.20	69996.81
		SUB TOTAL					847697.21
	L	BUILDING WATER SUPPLY					
23.28	76	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltr	2000.00	7.00	6.30	12600.00
		SUB TOTAL					12600.00
	M	SANITARY INSTALLATION					
25.1.1	77	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests	Each	9.00	2698.00	2428.20	21853.80
25.2.1	78	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked black solid plastic seat and lid	Each	9.00	2487.00	2238.30	20144.70
25.4.1	79	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :One urinal basin with 5 litre white P.V.C. automatic flushing cistern.	Each	18.00	2246.00	2021.40	36385.20
25.7.8	80	Providing and fixing wash basin with C.I. brackets, 15 mm C.P.brass pillar taps,32 mm C.P. brass waste of standard pattern,including painting of fittings and brackets, cutting and making good the walls wherever require :White Vitreous China Surgeon type wash basin of size 660x460 mm with single 15 mm C.P. brass pillar taps with elbow operated levers ISI marked.	Each	8.00	2098.00	1888.20	15105.60
25.32.2	81	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 :Rectangular shape 453x357mm	Each	6.00	685.00	616.50	3699.00
25.32.4	82	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 :Rectangular shape 1500x450 mm	Each	2.00	1729.00	1556.10	3112.20
		SUB TOTAL					100300.50

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
1.0	CHAPTER 5 (Volume - 1)	UNPLASTICIZED PVC PIPES & FITTINGS FOR POTABLE WATER SUPPLY					
1	5.1	Providing, laying and jointing following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. complete in all respect. [Conform to IS 4985:2000 and IS 7634 Rates (in Rs.) (PT-3)					
		90 mm dia.	RM	11.00	128.00	115.20	1267.20
		110 mm dia.	RM	28.00	182.00	163.80	4586.40
		160 mm dia.	RM	44.00	493.00	443.70	19522.80
		TOTAL OF UNPLASTICIZED PVC PIPES & FITTINGS FOR POTABLE WATER SUPPLY (CHAPTER 5)					25376.40
2.0	CHAPTER 8 (Volume - 1)	HDPE PIPES, MDPE PIPE & SPECIALS AND ZERO VELOCITY VALVES					
1	8.1	Providing, laying, Jointing & field testing of High Density Polyethylene pipes, (HDPE) confirming to IS 4984/ 14151/ 12786/ 13488 with necessary jointing material like mechanical connector or jointing pipes by heating to the ends of pipes with the help of Teflon coated electric mirror/ heater to the required temperature and then pressing the ends together against each other, to form a monolithic & leak proof joint by thermosetting process. It may be required to be done with Jacks/Hydraulic Jacks/ But fusion machine. (50mm & above fusion jointed & below 50mm mechanical jointed) PE-100					
		8 Kg/sq.cm :					
	1	20 mm dia	RM	165.00	34.00	30.60	5049.00
	2	25 mm dia	RM	93.50	41.00	36.90	3450.15
	3	32 mm dia	RM	99.00	50.00	45.00	4455.00
	4	40 mm dia	RM	89.10	64.00	57.60	5132.16
	5	50 mm dia	RM	60.50	89.00	80.10	4846.05
2	8.12	Providing & Supply of Electro Fusion Tapping Ferrule (Branch Tapping Saddle) female BSP Threaded with SS 304 insert fittings in accordance with BS EN 12201 : Part-3 suitable for drinking water with in black/blue colour manufactured from compounded PE80/PE 100 virgin polymer and compatible with PE80/PE100 pipes, in pressure rating SDR 11 with min PN 12.5 rated for water application and shall be inclusive of all cost such as testing, all taxes related to central, state & municipal, inspection charges, transportation upto site, transit insurance, loading, unloading, stacking etc. complete.					
	8.12.1	Electo Fusion Tapping Ferrule Saddle					
	8.12.1.1	63x15mm	Each	33.00	999.00	899.10	29670.30
	8.12.1.2	63x20mm	Each	16.50	999.00	899.10	14835.15
	8.12.1.3	63x25mm	Each	6.00	999.00	899.10	5394.60
3	8.14	Providing & Supply of PVC Ball Valves in PN16 rating with one end compression using Blue colour compression nut in polypropylene material & other end with female threads conforming to ISO:4422-4, certified from WRAS UK/KIWA etc. suitable for food products & drinking water, female threads in accordance with ISO:7/BS:21/ IS: 554 and shall be inclusive of all cost such as testing, all taxes related to central, state & municipal, inspection charges, transportation upto site, transit insurance, loading, unloading, stacking etc. complete.					
1	8.14.1	PVC Ball Valve with Compression & Female Threads					
2	8.14.1.1	20x15mm	Each	33.00	175.00	157.50	5197.50
3	8.14.1.2	25x20mm	Each	16.50	227.00	204.30	3370.95
4	8.14.1.3	32x25mm	Each	6.60	256.00	230.40	1520.64
5	8.14.1.4	40x32mm	Each	11.00	550.00	495.00	5445.00
6	8.14.1.5	50x40mm	Each	5.50	737.00	663.30	3648.15
		TOTAL OF HDPE PIPES, MDPE PIPE & SPECIALS AND ZERO VELOCITY VALVES (CHAPTER 8)					92014.65

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
3.0	CHAPTER 8.0 (Volume - 2)	MARBLE WORK OTHER THAN FLOORING					
1	8.10	Providing and fixing stone slab table rubbed, edges rounded and polished of size 75x50 cm deep and 1.8 cm thick fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth.					
2	8.10.2	Granite Stone of approved shade.	Sqm	4.13	2824.00	2541.60	10484.10
		TOTAL OF MARBLE WORK OTHER THAN FLOORING (CHAPTER 8)					10484.10
4.0	CHAPTER 13 (Volume - 1)	REINFORCED CEMENT CONCRETE PIPES					
1	13.3	Providing and Laying non-pressure (NP3) RCC socket & spigot pipes with rubber gasket joint including testing of joints. [Conforming to IS ; 458-1988, ISI marked laying as per IS 783:1985)					
		150 mm dia	Per Meter	237.00	376.00	338.40	80200.80
		225 mm dia	Per Meter	193.00	484.00	435.60	84070.80
		300 mm dia	Per Meter	88.00	827.00	744.30	65498.40
		TOTAL OF REINFORCED CEMENT CONCRETE PIPE (CHAPTER 13)					229770.00
5.0	CHAPTER 23 (Volume - 2)	BUILDING WATER SUPPLY					
1	23.7	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plane and brass threaded fitting 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 testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall.					
	23.7.2	20 mm nominal outer dia .Pipes.	Meter	10.00	112.00	100.80	1008.00
	23.7.3	25 mm nominal outer dia .Pipes.	Meter	15.00	140.00	126.00	1890.00
	23.7.4	32 mm nominal outer dia .Pipes.	Meter	23.00	186.00	167.40	3850.20
	23.7.5	40 mm nominal outer dia .Pipes.	Meter	82.50	303.00	272.70	22497.75
	23.7.6	50 mm nominal outer dia .Pipes.	Meter	105.60	436.00	392.40	41437.44
	DSR Code No. 8642	Chlorinated Polyvinyl - chloride (CPVC) pipe 62.5 mm inner dia	Meter	115.50	1462.35	1316.12	152011.28
	DSR Code No. 8644	Chlorinated Polyvinyl - chloride (CPVC) pipe 100 mm inner dia	Meter	15.00	2834.00	2550.60	38259.00
2	23.8	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 walls etc.					
	23.8.2	20 mm nominal outer dia .Pipes.	Meter	71.50	175.00	157.50	11261.25
	23.8.3	25 mm nominal outer dia .Pipes.	Meter	41.80	213.00	191.70	8013.06
	23.8.4	32 mm nominal outer dia .Pipes.	Meter	88.00	266.00	239.40	21067.20
3	23.16	Providing and fixing brass stop cock of approved quality :					
	23.16.1	15 mm nominal bore 0.40kg	Each	2.00	224.00	201.60	403.20
	23.16.2	20 mm nominal bore 0.75kg	Each	14.90	268.00	241.20	3593.88
4	23.9	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					
	23.9.7	62.50 mm nominal inner dia Pipes.	Meter	236.50	1346.00	1211.40	286496.10
5	23.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):					
	23.17.4	32 mm nominal bore.	Each	4.00	373.00	335.70	1342.80
	23.17.4	32 mm nominal bore.	Each	5.50	373.00	335.70	1846.35
	23.17.5	40 mm nominal bore	Each	25.30	493.00	443.70	11225.61
	23.17.6	50 mm nominal bore	Each	34.10	744.00	669.60	22833.36

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
	23.17.7	65 mm nominal bore	Each	14.30	1401.00	1260.90	18030.87
6	23.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :					
	23.18.1	15 mm nominal bore	Each	11.00	250.00	225.00	2475.00
	23.18.2	20 mm nominal bore	Each	9.90	365.00	328.50	3252.15
	23.18.3	25 mm nominal bore	Each	55.00	423.00	380.70	20938.50
7	23.19	Providing and fixing gun metal non- return valve of approved quality (screwed end) :					
	23.19.4	50 mm nominal bore					
	23.19.4.2	Vertical	Each	3.00	973.00	875.70	2627.10
8	23.19	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet :					
	23.22.2	150 mm diameter	Each	2.00	776.00	698.40	1396.80
9	23.28	Providing and placing on at all floor levels high design HDPE (polyethylene) water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	Ltr	5000.00	7.00	6.30	31500.00
10	23.29	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931					
	23.29.1	15 mm nominal bore.	Each	28.00	360.00	324.00	9072.00
11	23.36	Providing and fixing C.P. brass wall mixer of approved quality and make conforming to IS: specification.					
	23.36.1	15 mm nominal bore.	Each	2.00	2053.00	1847.70	3695.40
12	23.32	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.					
	23.32.1	15 mm nominal bore.	Each	35.00	360.00	324.00	11340.00
13	23.33	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931					
	23.33.1	15 mm nominal bore	Each	29.00	401.00	360.90	10466.10
14	23.38	Providing and fixing C.P. brass grating of approved quality and make conforming to IS: specification.					
	23.38.1	100 mm dia.	Each	72.00	44.00	39.60	2851.20
15	23.39	Providing and fixing C.P. brass soap container 109 mm wide,125 high and 112 mm distance from wall of standard shape with bracket of the same material with all fittings etc. of approved quality and make like Jaguor or equivalent conforming to IS:specification.	Nos	2.00	587.00	528.30	1056.60
16	23.45	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) :					
	23.45.1	50 mm dia	Each	2.20	2124.00	1911.60	4205.52
17	23.48	Providing and fixing enclosed type water meter (bulk type) conforming to IS 2373 and tested by Engineer in charge complete with bolts & nuts rubber insertions etc.(the tail pieces if required will be paid separately)					
	23.48.1	80 mm dia nominal bore	Each	2.00	2688.00	2419.20	4838.40
18	23.49	Providing and fixing C.I. dirt box strainer for bulk type water meter with bolts & nuts rubber insertions etc.complete conforming to IS 2373 :					
	23.49.1	80 mm dia nominal bore	Each	2.00	3424.00	3081.60	6163.20
19	23.51	Constructing one brick masonry chamber 30x30x50 cm inside, with 25 class designation modular brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for stop cock,with C.I. surface box 100x100x75 mm (inside) with hinged cover fixed in slab of cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate) necessary excavation 75 mm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) & inside plastering with cement mortar 1:3 (1 cement : 3 sand) 12 mm thick finished with a floating coat of neat cement complete as per standard disgn :	Each	2.00	5565.00	5008.50	10017.00

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
20	23.55	Constructing one brick masonry chamber 60x45x50 cm inside, with 40 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement. RCC top slab of cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate) along with necessary excavation, 100mm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) 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.	Each	1.00	5071.00	4563.90	4563.90
		TOTAL OF BUILDING WATER SUPPLY (CHAPTER 23)					777526.22
6.0	CHAPTER- 24 (Volume - 2)	BUILDING DRAINAGE					
1	24.1	Providing and fixing square-mouth S.W. gully trap grade 'A'" 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 : With Modular Bricks class designation 40.					
	24.1.2	150 x 100 mm size P type.	Each	11.00	1393.00	1253.70	13790.70
2	24.4	Constructing brick masonry mouldlar brick class designation 40 manhole in cement mortar 1:4 (1 cement : 4 sand) R.C.C. top slab with Cement concrete grade M-20 (Nominal Mix with 20mm maximum size of stone aggregate), 20 cm thick foundation concrete grade M-7.5 (Nominal Mix with 40mm maximum size of stone aggregate) inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 sand) finished with floating coat of neat cement and making channels in cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) as per standard design. The sizes of manhole and manhole covers as detailed below.					
	24.4.1	Manhole inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) :	Each	12.00	7377.00	6639.30	79671.60
	24.4.3	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg)	Each	21.00	20521.00	18468.90	387846.90
3	24.5	Extra for depth for manholes. With Modular bricks class designation 40					
	24.5.1	Size 90x80 cm	meter	8.00	4881.00	4392.90	35143.20
	24.5.2	Size 120x90 cm	meter	13.00	5840.00	5256.00	68328.00
4	24.9	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete grade M-15 (Nominal Mix with 20mm maximum size of stone aggregate) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :					
	24.9.1	For pipes 100 to 250 mm diameter	Each	2.00	201.00	180.90	361.80
	24.9.2	For pipes 250 to 300 mm diameter	Each	3.00	261.00	234.90	704.70
	24.9.3	For pipes 350 to 450 mm diameter	Each	3.00	392.00	352.80	1058.40
5	24.10	Constructing brick masonry road gully chamber 50x45x60 cm with bricks of class designation 40 in cement mortar 1:4 (1 cement : 4 sand) including 500x450 mm pre-cast R.C.C. horizontal grating with frame (minimum weight of grating 75 kg) complete as per standard design :					
	24.10.1	With Modular bricks	Each	11.00	3258.00	2932.20	32254.20
6	24.12	Providing and fixing S.W. intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :					
	24.12.2	150 mm dia	Each	2.00	334.00	300.60	601.20
7	24.13	Providing and laying below ground unplasticised PVC pipe to with stand working pressure of 4 kg/cm2 soild waste pipes confirming to IS:13592 and IS:4985 including jointing with seal ring confirming to IS :5282 leaving 10mm gap for thermal expansion all necessary fittings etc. complete.					

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
	24.13.1	110 mm diameter OD	Each	121.00	159.00	143.10	17315.10
	24.13.2	160 mm diameter OD	Each	35.00	353.00	317.70	11119.50
8	17.58 (MP PWD SOR)	Providing and fixing unplasticised Rigid PVC soil and waste pipes conforming to IS: 13592 Type B including jointing with seal ring conforming to IS:5382 leaving 10 mm gap for thermal expansion Single socket pipes for working pressure of 4kg/sqcm.					
	17.58.1	75 mm diameter (minimum wall thickness 3.2mm)	Each	28.00	136.00	122.40	3427.20
	17.58.2	110 mm diameter (minimum wall thickness 3.2mm)	Each	39.00	238.00	214.20	8353.80
9	DSR SOR 17.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including PVC. waste fittings complete.					
	DSR SOR 17.28.1	Semi rigid pipe					
	DSR SOR 17.28.1.2	40 mm dia	Each	72.00	82.60	74.34	5352.48
		TOTAL OF BUILDING DRAINAGE (CHAPTER 24)					665328.78
7.0	CHAPTER 25 (Volume - 2)	SANITARY INSTALLATIONS					
1	25.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :					
	25.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests	Each	6.60	2698.00	2428.20	16026.12
2	25.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :					
	25.3.1	W.C. pan with ISI marked white solid plastic seat and lid.	Each	17.60	3823.00	3440.70	60556.32
3	25.5	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass including painting of fittings and cutting and making good the walls and floors wherever required :					
	25.5.1	Single half stall urinal with 5 litre P.V.C. automatic flushing cistern.	Each	9.00	4422.00	3979.80	35818.20
4	25.7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :					0.00
	25.7.4	White Vitreous China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap	Each	22.00	1223.00	1100.70	24215.40
5	25.9	Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required :					
	25.9.1	White glazed fire clay kitchen sink of size 600x450x250mm.	Each	2.20	2091.00	1881.90	4140.18
6	25.32	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 :					
	25.32.2	Rectangular shape 453x357mm	Each	22.00	685.00	616.50	13563.00
7	25.34	Providing and fixing toilet paper holder :					
	25.34.2	Vitreous China	Each	24.00	212.00	190.80	4579.20
8	25.24	Providing and fixing white vitreous china squatting plate urinal with integral rim longitudinal flush pipe.	Each	25.00	1265.00	1138.50	28462.50
9	25.22	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	Each	5.00	85.00	76.50	382.50

CMH - Jabalpur Smart City Limited - Plumbing							
S. No.	UADD SOR No.	DESCRIPTION OF ITEM	UNIT	Qty.	RATE	Reduce RATE	AMOUNT
10	25.28	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.					
	25.28.2	Flexible pipe					
	25.28.2.1	32mm dia	Each	11.20	54.00	48.60	544.32
	25.28.2.2	32mm dia	Each	22.00	57.00	51.30	1128.60
11	17.72 (MP PWD SOR)	Providing and fixing CP Bottle trap of approved quality & make for sink & wash basin	Each	24.00	853.00	767.70	18424.80
12	17.75 (MP PWD SOR)	Providing and fixing CP Brass Soap dish of approved quality and make	Each	2.00	422.00	379.80	759.60
13	25.37 (MP PWD SOR)	Providing & fixing in position best indian Health Facuets 8mm dia 1 meter long flaxible tube and wallv bracketwith N.R.V. (non returnm wall)	Each	24.20	1920.00	1728.00	41817.60
14	25.51 (MP PWD SOR)	Providing & fixing in position best Indian C.P. Brass made (0.3 micron Chrome and 10 micron Nickel Plated) Single Towel Rail 600 mm long.	Each	2.00	2520.00	2268.00	4536.00
15	25.53 (MP PWD SOR)	Providing and fixing best Indian C. P. Brass made (0.3 micron chrome and 10 micron Nickel plated) Single Towel Ring Square.	Each	2.00	1920.00	1728.00	3456.00
16	25.60	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 : 100 mm inlet and 100 mm outlet Sand cast iron S & S as per IS: 3989.	Each	72.00	637.00	573.30	41277.60
		TOTAL OF SANITARY INSTALLATIONS (CHAPTER 25)					299687.94
8.0	NON SOR	SUBMERSIBLE OPENWELL PUMPS:					
	NON SOR	Supply, installation, testing & commissioning of Submersible single/ Multi stage single entry openwell pumps connected to submersible motor with 400/ 415 +/- 10% volts, 3 phase 50 Hz A.C. power supply & 2900 RPM with double mechanical seal,, in built level controller with operational mode as pump starts at low water level in OHT, both pumps at the same time during peak with a Hooter alarm and cut off at dry level as determined.	Nos	2.00			-
	NON SOR	The pump shall be provided with a lifting devise of pull chain & G.I. heavy class rising main of 7.5m length including interconnecting piping	Nos	2.00			-
	NON SOR	Submersible pump connector unit with rubber diaphragm and bend, vertical Flexible discharge pipe with required unions/flanges and 15 m cable etc. as per requirement complete in all respects.	Nos	2.00			-
	NON SOR	Electrical Starter panels complete with O/L Relay with Single phasing preventer feature, earth leakage relay, ON-OFF and Trip Indicating lamps, contactors contacts for Building Automation System, interlocking, level controller with operational mode as one pump working at low level, both pumps at high level with a hooter alarm and cut off at dry level and capable to communicate with BMS System through potential free contacts for indication of pump On/Off/Trip with provision of remote on/off.t, cascade operation, working / standby selection, etc. suitable for the motor H.P. as specified below and with provision for remote P.B. on/off complete as required.	Nos	1.00			-
	NON SOR	Set of accessories such as CPVC Header discharge header Isolation/Butterfly/Ball valves, non return valves,inter connecting power and control cabling etc.	Set	1.00			-
		All accessories shall be in vendor's scope and the relevant quotes shall be submitted by the vendors					
	NON SOR	Capacity per pump 15 m3/hour 30 mtr Head (1 Set = 1 W+1SB)	Set	1.00	55000.00	55000.00	55000.00
	NON SOR	Capacity per pump 10 m3/hour 40 mtr Head (1 Set = 1 W+1SB)	Set	1.00	95000.00	95000.00	95000.00
		TOTAL OF SUBMERSIBLE OPENWELL PUMPS:					150000.00
		TOTAL OF ALL INTERNAL & EXTERNAL PLUMBING WORKS					2250188.09

CMH - Jabalpur Smart City Limited - Electrical

Sr. No.	Item Code	Description / Specification	Qty	Unit	Rate	Reduced Rate as per UADD Orders	Amount
1	UADD 2.9	Supplying and fixing of approved make modular type metal box with modular frame/ base plate and cover plate including fixing in concealed / surface excluding switch,socket etc. as required for:-					
2	UADD 2.9.3	6 Module	6.00	each	176.00	158.40	950.40
3	UADD 2.9.5	12 Module	4.00	each	255.00	229.50	918.00
4	UADD 4.3	CIRCUIT WIRING IN EXISTING CONDUIT / PVC CASING CAPPING: Supplying and drawing single core PVC insulated cable FR with copper multi strand conductor ISI marked in existing rigid conduit in surface or concealed as per specification					
5	UADD 4.3.1	1.5 Sq mm cable					
6	UADD 4.3.1.1	1 X 1.5 sq mm	2,000.00	Mtrs	24.00	21.60	43,200.00
7	UADD 4.3.2	2.5 Sq mm cable					
8	UADD 4.3.2.1	1 X 2.5 sq mm	2,000.00	Mtrs	32.00	28.80	57,600.00
9	UADD 4.3.3	4.00 Sq mm cable					
10	UADD 4.3.3.1	1 X 4.00 sq mm	1,000.00	Mtrs	44.00	39.60	39,600.00
11	UADD 7.4	Supplying of ISI Marked On-Load Change over switches panel mounting type conforming to IS : 13947 (part I & III) with front operated 4 pole, 415 V with two earthing terminals if required.					
12	UADD 7.4.5	160 Amps. (open - execution)	1.00	each	8,631.00	7,767.90	7,767.90
13	UADD 7.11	Supplying of ISI Marked Direct On-Line Starters conforming to IS : 13947-4 with suitable over load relay range and contactor size, 415 V , 3 -Phase with two earthing terminals					
14	UADD 7.11.1	i) 0.75 / 1.0 / 2.0 / 3.0 / 5.0 / 7.5 HP	1.00	each	1,482.00	1,333.80	1,333.80
15	Non SOR	SITC of Domestic water Motor Pump - 1 HP, 220VAC, 50Hz	1.00	each	8,000.00	8,000.00	8,000.00
16	UADD 8	Supplying of ISI Marked and approved make of Moulded Case Circuit Breaker (MCCB) suitable for 3 phase,3 pole, 50 Hz, 415 Volts, AC supply with respective interrupting capacity (KA) at 415 Volts cited against their range standard conforming to IS - 8828					
17	UADD 8.2	MCCB with Breaking Capacity 35 KA at 415 V					
18	UADD 8.2.1	Current Rating -160 Amps & Adjustable: 70% -100% thermal	1.00	each	13,940.00	12,546.00	12,546.00
19	MP PWD 27.10	Supplying of approved make, powder coated Metal Double Door Vertical TPN MCB DB IP 43 protection with provision for MCCB up to 160A TP/ FP 36kA as incomer and space for SP/TP MCBs as outgoing (without MCCB / MCBs) inclusive of bus bar & connections etc					
20	MP PWD 27.10.2	8 way without MCCB	1.00	each	10,815.00	9,733.50	9,733.50
21	UADD 8.5	Supplying of ISI Marked and accepted standard of Miniature Circuit Breaker (MCB) of 'C' series suitable for 240/415 Volts, 50 Cycle , 10 kA Value AC supply conforming to IS : 8828 : 1996, IEC : 60898:2002 but without enclosures :-					
22	UADD 8.5.1	SINGLE POLE (SP)					
23	UADD 8.5.1.2	6 Amp to 32 Amp Rating	16.00	each	166.00	149.40	2,390.40
24	UADD 8.5.3	DOUBLE POLE (DP)					
25	UADD 8.5.3.2	6 Amp to 32 Amp Rating	4.00	each	559.00	503.10	2,012.40
26	UADD 8.5.4	FOR TRIPLE POLE (TP)					

27	UADD 8.5.4.2	6 Amp to 32 Amp Rating	40.00	each	829.00	746.10	29,844.00
28	UADD 8.5.4.4	50 Amp to 63 Amp Rating	6.00	each	1,329.00	1,196.10	7,176.60
29	UADD 8.5.(B)	Supply of approved make powder coated sheet steel encloser SPN MCB DB inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)-					
30	UADD 8.5.(B).3	4 way double door	4.00	each	829.00	746.10	2,984.40
31	UADD 8.7	Supplying of approved make Vertical TPN MCB DB Metal Double Door with provision for FP CB/Isolator/ RCCB/ RCBO as incomer and SP/TP MCBs as outgoing inclusive of Busbar, Neutral bar, Earth bar & two earth terminals etc. complete as per IS:13032(exclusive of MCB & isolator)					
32	UADD 8.7.2	6 way (8+24)	6.00	each	8,453.00	7,607.70	45,646.20
33	UADD 8.9	Supplying & fixing of approved make Industrial type metal plug & socket DBs (without MCB) SPN sheet encloser (dust protected) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required.					
34	UADD 8.9.2	20 Amps	45.00	each	749.00	674.10	30,334.50
35	UADD 8.12	Supplying and installing of RCBOs (Residual current circuit breaker with overload and short circuit protection) ISI marked complete as per I.S. standard confirming to IEC:61009-2-1 & IS:12640- 2:2001, 240 / 415V 50 Hz with 10 kA short circuit withstand capacity for earth leakage, overload & short circuit protection including connection in existing enclosure in approved manner as per specification.					
36	UADD 8.12.2	FP(8 module)					
37	UADD 8.12.2.4	4 pole 63 Amps, 30 mA sensitivity	6.00	No.	5,129.00	4,616.10	27,696.60
38	UADD 8.16	Fixing of MCB /MCCB/ Isolator					
39	UADD 8.16.1	Fixing of MCB / Isolator SP/DP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete (Labour only)	50.00	each	10.00	9.00	450.00
40	UADD 8.16.2	Fixing of MCB /MCCB Isolator TP /TPN/FP in sheet steel enclosure as required as per accepted practice, including mounting on busbar and cable connection etc. complete.	50.00	each	20.00	18.00	900.00
41	UADD 8.18	Labour charges for fixing sheet steel enclosures, MCB DB surface mounting type,as per accepted practice on 25x25x 5 mm angle iron clamp,including supplying and fixing of clamps duly embedded in wall,cable connection etc. complete					
42	UADD 8.18.1	8.7(2) & 8.7(3) & 8.8(1) to 8.8 (3)	6.00	each	170.00	153.00	918.00
43	UADD 9.11	Supplying and fixing as per specification Caution / Danger Board as required of approved make & design with necessary material complete.					
44	UADD 9.11.1	Small Size	12.00	each	106.00	95.40	1,144.80
45	UADD 9.12	Supplying and fixing as per specification bakelite Ceiling rose 3 Plate of approved make ISI marked with necessary material complete.	100.00	each	28.00	25.20	2,520.00
46	UADD 9.29	Suppling and fixing of approved make step type electronic Fan regulator including connection etc. as required on existing board					
47	UADD 9.29.1	450 Watt	4.00	each	249.00	224.10	896.40
48	UADD 9.32	Supplying, erection and testing of approved make electric Ceiling fan of double ball bearing complete with standard down rod, canopy, hanging shackle, Aluminium blades, without regulator, A.C. 230-250 volts including connections with all necessary material complete as required confirming to IS :374/1979 with upto date ammendments.					

49	UADD 9.32.2	Ceiling Fan (Energy Saver 60 W)-1400 mm Sweep	4.00	each	1,998.00	1,798.20	7,192.80
50	UADD 9.36	Supplying, erecting and testing of approved make Exhaust Fan heavy duty with mounting frame, blades AC 230-250 complete connection and including, frame bolt/ Anchor hole fastners etc. complete finished and as required.					
51	UADD 9.36.3	450mm sweep 900 RPM	8.00	each	4,291.00	3,861.90	30,895.20
52	UADD 9.8	Supplying and fixing as per specification socket outlet of approved make & ISI marked with necessary material complete					
53	UADD 9.8.5	10 Amps 250 Volt 3 Pin Modular type	12.00	each	170.00	153.00	1,836.00
54	UADD 9.8.6	20 Amps 250 Volt 3 Pin Modular type	4.00	each	275.00	247.50	990.00
55	UADD 9.13	Supplying and fixing as per specification Switch of approved make ISI marked with necessary material complete.					
56	UADD 9.13.6	10 Amps S.P.250 Volt Modular Switch	30.00	each	107.00	96.30	2,889.00
57	UADD 9.13.7	20 Amps S.P.250 Volt Modular Switch	6.00	each	172.00	154.80	928.80
58	UADD 10.13	Providing and fixing pilot lamp over Main Distribution Fuse Boards / Boxes with 16 mm bracket with lamp holder, paw shade, controlling switch, including wiring and other necessary material as required	45.00	each	45.00	40.50	1,822.50
59	UADD 10.22	Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in recessed/concealed rigid steel conduit system.	100.00	each	291.00	261.90	26,190.00
60	UADD 10.23	Labour rate for point wiring a Light / Fan / Twin control light / Socket out let on seperate board / Call bell Point in (open) surface rigid PVC conduit system.	200.00	each	93.00	83.70	16,740.00
61	UADD 10.30	Labour rate for fixing rigid PVC conduit as per specification in recessed/concealed conduit wiring system.					
62	UADD 10.30.1	20 mm Conduit	800.00	each	25.80	23.22	18,576.00
63	UADD 10.33.15	Cement concrete grade M-20 (Nominal Mix) with 20mm maximum size of stone aggregate (rate from Building ISSR)	30.00	Cum	4,594.00	4,134.60	1,24,038.00
64		EARTHING AND LIGHTNING					
65	UADD 11.19	Providing and fixing of lightning conductor finial made of 25mm dia 300mm long copper tube having single prong at top with 85 mm dia 3 mm thick copper base plate including holes complete as required.	2.00	each	1,379.00	1,241.10	2,482.20
66	UADD 11.23	Providing and fixing copper tape 20mm X 3mm thick on parapet and surface of wall of lightning conductor as required (for Horizontal runs)	50.00	meter	367.00	330.30	16,515.00
67	UADD 11.34	Providing and fixing earthing arrangement with 16mm dia 2.5 meter long galvanized iron or steel rod electrode including packing of charcoal powder and salt as per specification watering pipe 19mm dia G.I. Connection etc. complete with refilling the pit as required, but excluding the excavation of earth pit.	10.00	each	667.00	600.30	6,003.00
68	UADD 11.40	Supplying and erecting earth pit of minmum bore dia 150 mm size, approved make safe earthing electrode consiting pipe in pipe technologie as per IS 3043-1987 made of corrosion free GI pipes having outer pipe dia of 50 mm having 80-200 micron galvanising, inner pipe dia of 25 mm having 20-250 micron galavinsing, connection teriminal dia of 12 mm with constent OHMIC value sourrounded by highly conductiv compund with high charge disipation sutible for effective and maintence free earthing					
69	UADD 11.40.2	with 3 mtr. Pipe in normal soil with 50 kg (two bag) back filling compound	6.00	each	10,800.00	9,720.00	58,320.00
70	UADD 11.40.4	with 3 mtr. Pipe of 80 mm outer dia, 40 mm inner dia and 14 mm terminal dia, in soft rock/marshy soil with 25 kg (two bag) back filling compound	4.00	each	13,300.00	11,970.00	47,880.00

71	UADD 11.8	Supplying and laying 25mm X 5mm G.I. strip at 0.5 meter below ground level as strip earth electrode including soldering etc. as required.	400.00	meter	65.00	58.50	23,400.00
72	UADD 11.36	Supplying and laying G.I. earth lead duly installed on wall or in G.I. Pipe including connections etc.complete as required.					
73	UADD 11.36.1	13 sq mm (4 mm dia)	3,000.00	meter	10.00	9.00	27,000.00
74	UADD 13.10	Supplying and erection of water tight terminal box of 14 SWG M.S. Sheet 4mm thick box of required size to erect the suitable kit kat / MCB/Switch with Top & bottom folded fitted with rubber ring to make it water tight with pole clamp made from 40x3mm M.S. flat iron with 2 Nos. Nut and Bolts duly painted with 2 coat of Red Oxide paint and 2 coat of Aluminium silver paint erected with cable gland but excluding the cost of the Kit Kat/MCB/Switch complete as per specification:					
75	UADD 13.10.2	30x20x15 Cms.	50.00	each	390.00	351.00	17,550.00
76	UADD 14.1	Supply of XLPE Insulated power cable (conforming IS- 7098) 1100 Volt grade / Heavy duty power cable conforming to IS 1554-1100 Volts grade, 2 core /3½ core/4 coreISI MARKED with Alu. Stranded / solid conductor					
77	UADD 14.1.2	ARMOURED 2 Core					
78	UADD 14.1.2.5	16 Sq.mm.(XLPE)	200.00	meter	119.00	107.10	21,420.00
79	UADD 14.1.8	ARMOURED 4 CORE					
80	UADD 14.1.8.3	16 Sq.mm.(XLPE)	500.00	meter	229.00	206.10	1,03,050.00
81	UADD 14.1.8.4	25 Sq.mm(XLPE)	800.00	meter	281.00	252.90	2,02,320.00
82	UADD 14.1.8.7	70 Sq.mm(XLPE)	700.00	meter	604.00	543.60	3,80,520.00
83	UADD 14.1.8.10	150 Sq.mm.(XLPE)	200.00	meter	1,155.00	1,039.50	2,07,900.00
84	14.5.3	Supply and making cable end termination with all necessary materials including lugs etc.Heat shr.jointg. kit 1.1 kV XLPE/HD cable I.D. termination					
85		a. 10-50 sqmm 2 / 3 / 3½ / 4core	12.00	each	3,917.00	3,525.30	42,303.60
86		b. 70-150 sqmm 2 / 3 / 3½ / 4core	12.00	each	4,725.00	4,252.50	51,030.00
87	UADD 14.6	BRASS COMPRESSION GLAND					
88	UADD 14.6.1	Supplying and fixing heavy duty cable gland for P.V.C. insulated armoured cable with brass washer, Rubber ring complete erected with cable and lead connection etc. as per specification complete.					
89	UADD 14.6.1.2	Gland Size 22mm suitable for cable 2,3, 3½, 4 x 10 Sq.mm or 2x 16 Sq.mm	20.00	each	44.00	39.60	792.00
90	UADD 14.6.1.3	Gland size 28mm for 3,4 x 16 Sq.mm	10.00	each	66.00	59.40	594.00
91	UADD 14.6.1.5	Gland size 38mm 3½ x 70 Sq.mm, 3x95 Sq.mm	10.00	each	119.00	107.10	1,071.00
92	UADD 14.6.1.6	Gland Size 45mm 3/3½ x 120 Sq.mm 3½ x 95 Sq.mm 3 x 150 Sq.mm.	1.00		149.00	134.10	134.10
93	UADD 14.1	CABLE LAYING					
94	UADD 14.10.7	Laying of one number PVC insulated and PVC sheathed power cable of 1:1 kV grade of size not exceeding 25 Sq.mm in the existing RCC Hume/Stone/Ware/G.I. pipe as required.	2,500.00	meter	20.00	18.00	45,000.00
95	UADD 14.10.8	Laying of one number PVC insulated and PVC sheathed power cable of 1.1 kV grade of size exceeding 25 Sq.mm but not exceeding 400 Sq mm in the existing RCC/Hume Stoneware/G.I. Pipe as required.	300.00	meter	28.00	25.20	7,560.00

96	UADD 17.4	Supplying and installing Double wall corrugated pipes (DWC) of HDPE (IS 14930 Part II -marked) for cable laid under ground with necessary connecting sockets/ couplings,tees of same material and at required depth upto 90cm. below road/ground surface,including excavation, back filling with excavated material with ramming and making the surface good.					
97	UADD 17.4.2	63.00mm outside dia.	2,000.00	meter	210.00	189.00	3,78,000.00
98	UADD 17.4.3	77.00mm outside dia.	700.00	meter	222.00	199.80	1,39,860.00
99	UADD 19.27	20 mm dia ISI marked, PVC conduit (for 100 Mtrs)	2.00	meter	2,079.00	1,871.10	3,742.20
100	UADD 19.33	20 mm PVC junction box, two way (for 100 Nos.)	1.00	No.	763.00	686.70	686.70
101	UADD 19.59	S.P 5/6 amps, one way modular switch, ISI marked	5.00	each	32.00	28.80	144.00
102	UADD 19.61	S.P 15/16 amps, one way modular switch, ISI marked	2.00	each	102.00	91.80	183.60
103	UADD 19.62	3 pin 5/6 amps, modular socket outlet, ISI marked	5.00	each	50.00	45.00	225.00
104	UADD 19.63	6 pin 15/16 amps, modular socket outlet, ISI marked	2.00	each	174.00	156.60	313.20
105	UADD 19.36	75 mm X 75 mm X 50 mm PVC box (100 Nos)	1.00	Lot	907.00	816.30	816.30
106	UADD 289	Excavation including refilling as required	90.00	CUM	165.00	148.50	13,365.00
107	MP PWD 42.93	Providing and erecting hot dipped galvanized octagonal poles in single section made from 3mm thick sheet having lockable weather proof flush door junction box complete erected in an approved manner on provided foundation. Suitable size & type of foundation bolts 4 nos. 'J' type (EN8 grade)					
108	MP PWD 42.93.4	6 mtrs. Height 130 X 70mm A/F, 220x220x12mm base plate, 4 nos. X 20 x 600mm bolt	30.00	each	14,797.00	13,317.30	3,99,519.00
109	MP PWD 31.3	Supplying and fixing lood light with high power LED of 1 to 3 W each assembled on single MCPCB, system lumens output with efficacy>90 lm/W. luminaire having color temp 6500K & 50000 burning hrs life with minimum @ L 70, The colour rendering index of LED light should be more than 70. Luminaire comprises of driver, PF 0.95 & surge protection 3KV. Housing made of pressure die cast aluminium with heat resistant flat glass, IP65 protection. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory i/c connection lead, testing etc to complete the job. 2 Yrs Guarantee certificate from manufacturer.					
110	MP PWD 31.30.3	60 Watt	8.00	each	9,794.00	8,814.60	70,516.80
111	Non SOR	P&I of IP65 protected Top/Bottom mounted LED Post top Light system. Fixture made of powder coated die cast aluminium housing with UV stabilized PC diffuser. The System level Luminous efficacy >90 Lumen/W. SMD LEDs , System CRI>70, CCT: 3000/4000/6500 K. The integral SMPS based electronic driver must be constant current and surge protection of min. 4KV(L-N) and efficiency > 85%, PF>0.9, THD<20% and input Voltage range of 90-270V AC at 50Hz. System life of 50000 burning hours with 70% of Initial Lumens maintained. Light output in Cool white or Warm White Colour as per engineers choice. Fixture must be in compliance with IS/CE Standards. External Surge Protection Device(SPD) to be connected separately 60/65W LED Post Top Fixture Indirect type for 06 Mtrs pole height	30.00	each	15,500.00	15,500.00	4,65,000.00

112	Non SOR	<p>P&I of IP66 protected High Power LED Linear Flood Light System. Fixture made of powder coated Extruded Aluminium Housing with UV stabilized PC/Toughened Glass cover and appropriate lens to be used to achieve various beam angle pattern. Fixture suitable for input 12V DC, Power consumption should be 6W/0.5A per Feet with System level Luminous efficacy >80 Lumen / W. LM80 Approved RGB LEDs to be used. System CRI>70, Color Red/ Green/ Blue/ RGB/ W/ WW. The fixture must have IP66 protected 5mm Round female connector for input, The fixture must have provision to extend further. System life of 50000 burning hours with 70% of Initial Lumens maintained. Light output in Red, Green, Blue, Cool white or Warm White Colour as per requirement. Fixtures shall be CE compliance SMPS based electronic driver current rating should be chosen separately on complete series of linear flood light.</p> <p>Linear LED Strip 4 Feet / 1000 mm (with Driver) - 25-30 Watt</p>	15.00	each	22,000.00	22,000.00	3,30,000.00
113	Non SOR	<p>P & F of IP68, IK10 protected LED Buried marker light / Step Light Fixture. Fixture made of powder coated die cast aluminium with Toughened Glass cover and appropriate beam angle lens to be used as per requirement. The System level Luminous efficacy must be >90 Lumen/W. High Power LEDs at 1W/2W per LED. The driving current should be Minimum 350 mA per LED. CRI>70, CCT: 3000/6500 K. The integral SMPS based electronic driver must be constant current and surge protection of min. 4KV(L-N) and efficiency > 85%, PF > 0.9 and input Voltage range of 90-270V AC at 50Hz. System life of 50000 Burning hours with 70% of Initial Lumens maintained. Light should include quick connecting cable coupled with various mounting accessories. Light output in Cool white or Warm White Colour as per engineers choice. Fixture must be in compliance with IS / CE Standards.</p> <p>Step Light LED - 10 Watt</p>	120.00	each	6,500.00	6,500.00	7,80,000.00
114	Non SOR	<p>Supply & installation of light fittings on 'C/U' shaped flat iron bracket</p> <p>Supply, conveyance, installation, testing and commissioning the light fittings of following types made from 0.5mm CRCA sheet complete with all accessories and lamps etc. directly on wall using 2 nos. 'C/U' brackets made from 20 x 3 mm MS flat, painting the flat iron bracket and giving connections with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connection etc. as required.</p> <p>1200 mm 1X24W LED Lamp with box type fixture</p>	120.00	each	1,400.00	1,400.00	1,68,000.00
115	Non SOR	<p>P & F of IP68, IK10 protected LED uplighter / spike Light Fixture. Fixture made of powder coated die cast aluminium with Toughened Glass cover and appropriate beam angle lens to be used as per requirement. The System level Luminous efficacy must be >90 Lumen/W. High Power LEDs at 1W/2W per LED. The driving current should be Minimum 350 mA per LED. CRI>70, CCT: 3000/6500 K. The integral SMPS based electronic driver must be constant current and surge protection of min. 4KV(L-N) and efficiency > 85%, PF > 0.9 and input Voltage range of 90-270V AC at 50Hz. System life of 50000 Burning hours with 70% of Initial Lumens maintained. Light should include quick connecting cable coupled with various mounting accessories. Light output in Cool white or Warm White Colour as per engineers choice. Fixture must be in compliance with IS/CE Standards.</p> <p>uplighter / spike Light Fixture - 30/40 Watt for Trees</p>	20.00	each	20,000.00	20,000.00	4,00,000.00
116	Non SOR	SITC IP65/67 Water Tight Junction box 200 x 200 x 60 mm, including rail mounted Terminal block 25 mm (6 Nos),	30.00	each	1,400.00	1,400.00	42,000.00
117	Non SOR	SITC of Lighting Fountain, Refer fountain BOQ	3.00	each	3,40,000.00	3,40,000.00	10,20,000.00
		Total					60,43,878.90