

**OF QUANTITY FOR CONSTRUCTION OF G+2 VENDING ZONE NEAR PATNA  
EGIATE SCHOOL AT BARI PATH IN WARD NO. 42 UNDER BANKIPUR DIVISION  
P.M.C. PATNA**

1	Date of Tender		As per NIT			
2	Cost of B.O.Q.		Rs. 10000.00			
3	Earnest Money		920000.00			
4	Time Completion		12 Month			
5	Beltron Bid Process Fee including Service Tax to be paid through online Mode		5900			
S NO	BCD/SO R	DESCRIPTION	UNIT	QUANTITY	RATE IN Rs.	AMOUNT Rs.
1.0	20.3.4	Pile Works Boring,with hydraulic piling rigs with power units, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :300 mm dia piles(Derived as per SOR analysis for 300mm dia Pile )	metre	1,416.00	2,334.40	33,05,510.40
2	20.6.1.1	Vertical load testing of pile in accordance with IS 2911 (Part IV) including installation of loading plateform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.Single pile upto 50 tonne capacity.Initial Test Pile	per test	1.00	51,510.60	51,510.60
3	20.6.1.2	Routine test	per test	2.00	18,463.50	36,927.00
4	2.26	Filling available excavated earth (excluding rock ) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth: consolidating each deposited layer by ramming and watering lead upto 50M and lift upto 1.5M.	Cu.M	170.770	123.90	21158.37
5	2.28	Supplying and Filling in plinth with local sand and under floors including, watering, ramming consolidating and dressing complete.	Cu.M	314.885	287.30	90466.49

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2.8.1		Earth work in excavation in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift up to 1.5m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.	Cum	65.290	360.70	23549.98
7	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level:1:2:4(1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	Cu.M	100.872	3998.10	403296.34
8	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering-all work upto plinth level:1:1.5:3 (1 Cement: 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	Cu.M	9.095	4420.80	40208.45
9	4.12	Extra for providing and mixing water proofing material in cement concrete work in the proportion recommended by the manufacturers.	Per 50 kg. cement	650.000	57.16	37154.00
10	5.9.1	Centring and shuttering including strutting, propping etc. and removal of form for: Foundations, footings, bases of columns etc. for mass concrete.	Sq.m	170.132	211.60	35999.93
11	5.9.3	Centring and shuttering including strutting, propping etc. and removal of form for: Suspended floors, roofs, landings, balconies and access platform.	Sq.m	1074.512	437.50	470099.00
12	5.9.5	Centring and shuttering including strutting, propping etc. and removal of form for: Lintels, beams, plinth bams, girders, bressumers and contilevers.	Sq.m	1501.160	404.70	607519.45
13	5.9.6	Centring and shuttering including strutting, propping etc. and removal of form for: Columns,Pillars, Piers, Abutments, Posts and Struts	Sq.m	966.440	494.40	477807.94
14	5.9.7	Centring and shuttering including strutting, propping etc. and removal of form for: Stairs,(excluding landings) except spiral-staircases.	Sq.m	71.286	439.90	31358.71
15	5.9.19	Centring and shuttering including strutting, propping etc. and removal of form for: Weather shade,Chajjas, corbels etc. including edges	Sq.m	243.000	550.90	133868.70
16	5.22.7A	Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete:Thermo-Mechanically Treated bars (FE-500) 8mm dia.	KG	22892.290	94.50	2163321.41
17	5.22.7B	Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete:Thermo-Mechanically Treated bars (FE-500) 10mm dia.	KG	24523.220	92.60	2270850.17
18	5.22.7C	Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete:Thermo-Mechanically Treated bars (FE-500) 12mm dia.	KG	15383.740	90.80	1396843.59



20	5.22.7D	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars (FE-500) 16mm dia.	KG	1902.440	91.70	174453.75
20	5.22.7E	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars (FE-500) 20 mm dia.	KG	19372.430	91.70	1776451.83
21	5.22.7F	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars (FE-500) 25 mm dia.	KG	43895.860	91.70	4025250.36
22	5.33A.1+ 5.33.B1	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete :All work upto plinth level: Add or deduct for providing richer or leaner mixes respectively at all floor levels: Providing M-25 grade R.C.C. instead of M-	Cu.m	256.473	4921.40	1262208.10
23	5.33A.2.1 + 5.33B1	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete :All work upto plinth level: All works above plinth level upto floor V level : Walls columns, pillars, posts and struts: Add or deduct for providing richer or leaner mixes respectively at all floor levels: Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.	Cu.m	101.609	5458.00	554580.83
24	5.33A.2.2 + 5.33B.1	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete structural elements, excluding the cost of centring, shuttering finishing and reinforcement, M-20 grade reinforced cement concrete: All works above plinth level upto floor V level : Beams, plinth beams, girders, bressumers, cantilevers, Suspended floors lintels roofs and staircases including spiral staircases, shelves etc.: Add or deduct for providing richer or leaner mixes respectively at all floor levels: Providing M-25 grade R.C.C. instead of M-20 grade R.C.C.	Cu.m	391.714	5841.70	2288273.05
25	6.1.14C	Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cu.M	40.630	4923.00	200021.49

1.14C+ 6.3C		Brick work with fly ash bricks as per IS 12894(2002) & IS 3495 in foundations and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand) : Extra tor Brick work in superstructure above plinth level upto floor V cum	Cu.M	239.484	5765.20	1380673.59
27	6.45.1	Half brick masonry with non modular fly ash bricks of class designation 10, conforming IS :12894, in superstructure above plinth and upto floor V level. Cement mortar 1 : 3 (1 cement : 3 coarse sand)	sqm	194.211	723.00	140414.55
28	6.47A	Providing 250mm wide brick drain in cement mortar (1:6) with av. 150mm. Clear depth and 250mm apron including cost of E/W. involved with 75mm cement concrete (1:4:8) over one brick designation 100-A flat soling in proper grade and slope at the base, the drain duly. plastered in CM. (1:3) with punning over exposed surface all complete as per building specification	Per M	120.000	1087.90	130548.00
29	8.2.2.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels: Rajnagar plain white marble /Udaipur green marble/Zebra block marble:Area	Sq.M	270.000	4242.90	1145583.00
30	9.48.2	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings/ wooden frames with rawl plugs screws etc	KG	5135.400	161.10	827312.94
31	9.96.1	Providing and fixing alluminium sliding door bolt anodized (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with nuts and screws etc. complete : 300 x 16mm	Each	25.000	235.50	5887.50
32	9.97.1	Providing and fixing alluminium sliding tower bolt anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with nuts and screws etc. complete : 300 x 10mm	Each	50.000	111.40	5570.00
33	9.100.1	Providing and fixing aluminium handles, 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: 125mm	Each	50.000	57.10	2855.00



9.101.2	Providing and fixing alluminium hanging floor door stopper 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 : Twin rubber stopper	Each	25.000	60.80	1520.00	
35	9.147D.3	Providing and fixing factory made uPVC white colour sliding <b>glazed window</b> upto 1.50 m in height dimension comprising of uPVC multichambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension of uPVC extruded glazing beads and uPVC extruded interlocks, EPDM gasket, wool pile, zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers (weight bearing capacity to be 40 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc.	Sq.M	171.180	7261.90	1243092.04
		After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately) Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. Three track three panels sliding window with fly proof SS wire mesh (Two nos. glazed & one no. wire mesh panels) made of (small series) frame 92 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension (Area of window upto 1.75 sqm).				
36	10.3	Providing and fixing in position collapsible steel shutters with vertical channes 20x10x2 mm and braced with flat iron diagonals 20x5 mm size with top and bottom rail of T-tron 40x40x6 mm with 40 mm dia steel pulleys complete with bots.nuts locking arrangement stoppers handies including applying a priming coat of approved steel primer.	Sq.M	14.300	6303.40	90138.62

37	10.18	Providing and fixing circular/hexagonal cast iron or M.S sheet box for ceiling fan clamp 140 mm internal dia, 73 mm height, 5 mm thick rim bottom and top lids, 1.5 mm thick M.S sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamps shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.	Each	50.000	165.40	8270.00
38	10.32.2	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: In gratings, frames, guard bar, ladders, railing, brackets, gets & similar works.	KG	5250.000	114.60	601650.00
39	10.33.3	Providing and fixing hand rail by welding etc. to steel ladder railings & staircases railing including applying a priming coat of approved steel primer:G.I. Pipes 40 mm nominal bore (class - B)	KG	92.233	150.00	13834.89
40	11.20.3	Chequerred precast cement concrete tiles 22 mm thick with marbie chips of size 6 mm in footpath & coutyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning tec. Complete on 20 mm thick bed of cement mortar 1:4(1 cement:4 coarse sand) : Dark shade using ordinary cement.	Sq.M	108.000	766.70	82803.60
41	11.26.1	Kota stone slab 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 . Base with 1:1:1 (1 lime : 1 surkhi: 1 coarse sand ) / 1:4: 20 to 25 mm thick.	Sq.M	1460.250	1252.70	1829255.18
42	11.27	Kota stone slabs 20 mm thick in risers of steps skirting. Dado & pillars laid on 12 mm (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 slab including rubbing and polishing complete. Details of cost for 10 sqm.	Sq.M	93.168	1334.90	124369.96



43	11.4	Providing and laying Ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 13755 of NITCO, ORIENT, SOMANY, KAJARIA or equivalent make in colours except white, Ivory, Grey, Fume, Red, Brown, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete	Sq.M	173.578	1414.00	245439.24
44	11.4	Providing and laying Ceramic glazed floor tiles 300x300mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 13755 of NITCO, ORIENT, SOMANY, KAJARIA or equivalent make in colours except white, Ivory, Grey, Fume, Red, Brown, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 Coarse sand) including grouting the joints with white cement and matching pigments etc, complete	Sq.M	111.732	1414.00	157989.05
45	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	Sq.M	624.291	283.30	176861.67
46	12.78.2	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqcm) rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 110mm diameter	M	150.000	257.50	38625.00
47	12.79.5.2	Providing & fixing on wall face unplasticised P.V.C. pipe (working pressure 4 Kg/Sq.cm) conforming to IS-4985 for sewerage including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion: 110mm dia Plain bend	Each	10.000	132.00	1320.00
48	12.79.6.2	Providing & fixing on wall face unplasticised P.V.C. pipe (working pressure 4 Kg/Sq.cm) conforming to IS-4985 for sewerage including jointing with seal ring conforming to IS:5382 leaving 10mm gap for thermal expansion: 110mm dia Shoe	Each	10.000	115.95	1159.50
49	12.80.2	Providing and fixing unplasticised-PVC clip of approved design to unplasticised PVC by means of 50 x 50 x 50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing on cement mortar (1:4) 1 cement : 4 coarse sand and making good the wall etc. complete: 110mm dia clip	Each	80.000	182.72	14617.60

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81		Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15cm diameter and weighing not less than 440 grams.	Each	8.000	47.90	383.20
1	13.11.4	12mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand)	Sq.M	3535.923	141.50	500333.15
52	13.13.1+ 13.36.5+ 13.26	Cement plaster in coarse sand : 20mm cement plaster of mix : 1:3(1cement : 3 coarse sand) :Extra for providing and mixing water proofing material in proportion recommended by the manufacturers: 20mm cement plaster 1:3 (1 cement : 3 sand) including neat cement punning	Sq.M	97.200	280.90	27303.48
53	13.24.2	6mm cement plaster to ceiling of Mix : 1:4 (1 cement : 4 coarse sand)	Sq.M	1138.393	125.60	142982.11
54	13.46.1	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two or more coat applied @ 1.67 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	Sq.M	1360.440	137.00	186380.28
55	13.77.2	Distempering with oil bound washable distemper of approved brand and manufacture to give and even shade: New work (two or more coats) over and including priming coat with cement primer	Sq.M	2934.412	102.30	300190.32
56	13.80A.2	Providing and applying white cement based putty of average thickness 2 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sq.M	4294.852	105.40	452677.37
57	12.55X	Providing Heat resistant terrace tiles	sqm	365.000	1101.60	402084.00
58	26A.7	Providing , fabricating and supplying and fixing ACP panel	sqm	470.980	4474.20	2107258.72
59	13.93.1	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade: Two or more coats on new work	Sq.M	171.180	84.50	14464.71



60	26.86.2	<p>Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceostory windows &amp; other <b>Frames/Chowkhat</b> comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) &amp; 1100 N (Edge), minimum compressive strength of 58 N/mm, modulus of elasticity 900 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs /SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for <u>Separately</u>) <u>Note: For WPC solid</u></p>	Meter	117.000	567.50	66397.50
61	26.87.1	<p>Providing and fixing factory made single extruded WPC {Wood Polymer Composite} solid plain flush <b>door shutter</b> of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800N {Face} &amp; 900N (Edge), minimum compressive strength 50 N/mm, modulus of elasticity 850 N/mm and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. {Note: stainless steel butt hinges and necessary S.S screws shall be paid separately} 30 mm thick</p>	sqm	42.840	3866.50	165640.86

2.8.1		Earthwork in excavation 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	Cu.M	50.77	360.7	18312.739
63	4.1.2	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering-all work upto plinth level:1:1.5:3(1 Cement: 1.5 coarse sand:3 graded stone aggregate 20 mm nominal size)	Cu.M	3.74	4420.8	16533.792
64	5.1.2	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement- All work upto plinth level : 1:1.5:3 (1 cement: 1.5 coarse sand: 3 graded stone aggregate 20 mm nominal size){ Foundation, Band at P.L.& S.Tank Cover)	Cu.M	1.744	4688.3	8176.3952
65	5.22.7A	Reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete:Thermo-Mechanically Treated bars (FE-500) 8mm dia.	kg	122	94.5	11529
66	6.1.12C	Brick work with bricks of class designation 100A in foundation and plinth in : Cement mortar 1:4(1 cement : 4 coarse sand)	Cu.M	13.23	5116.3	67688.649
67	6.1.14C	Brick work with bricks of class designation 100A in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand)	Cu.M	3.24	4923	15950.52
68	11.72	Providing designation 100A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/I.	sqm	17.28	283.3	4895.424
69	12.78.1	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqcm) rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 75mm diameter	M	60	162.7	9762
70	12.79.1.1	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqcm) rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 75 MM coupler	Each	60	79.8	4788
71	12.79.1.2	Providing and fixing on wall face unplasticised-PVC (working pressure 4 kgf per sqcm) rain water pipes conforming to IS : 4985 including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion: 110MM coupler	Each	60	120	7200

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	12.79.4.2	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 110 x 110 x 110mm dia Single In Tee without door (T. Bend)	Each	10	190.7	1907
73	12.79.4.1	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 75 x 75 x 75mm dia Single In Tee without door (T. Bend)	Each	10	124.2	1242
74	12.79.5.2	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 110mm dia Plain bend	Each	10	132	1320
75	12.79.3.2	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 110 x 110 x 110mm dia Single In Tee with door (T. Bend)	Each	10	193.4	1934
76	12.79.3.1	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 75 x 75 x 75 mm dia Single In Tee with door (T. Bend)	Each	10	141.6	1416
77	12.79.5.1	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 110mm dia Plain bend	Each	10	132	1320
78	12.79.5.1	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 75 mm dia Plain bend	Each	10	91.8	918
79	12.79.5.2 +12.81	Providing & fixing on wall face unplastisised P.V.C. pipe (working pressure 4 Kg/Sq.cm) confirming to IS-4985 for sewerage including jointing with seal ring confirming to IS:5382 leaving 10mm gap for thermal expansion: 75mm Floor trap	Each	10	179.9	1799
80	13.11.4	12mm cement plaster of mix: 1:6 (1 Cement : 6 coarse sand)	Sq.m	20.256	141.5	2866.224
81	13.17.1	12mm cement plaster of mix: 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement	Sq.m	42.94	203.6	8742.584
82	13.24.2	6mm cement plaster to ceiling of Mix: 1:4 (1 cement : 4 coarse sand)	Sq.m	15.45	125.6	1940.52

7.80		Providing and fixing white vitreous china battery based infrared sensor operated urinal ..	Each	6	6534.2	39205.2
84	17.1.1	Providing and fixing water closet squatting pan (Indian type W.C.pan ) with 100 mm sand cast Iron P or S trap, 10 litre low fixtures complete, including cutting and making good the walls and level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and floors wherever required :White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	Each	10	4470.9	44709
85	17.2.1	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, including flush pipe, 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 white solid plastic seat and lid	Each	2	4230	8460
86	17.4.1	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm 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	6	3723	22338
87	17.7.1	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 Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	12	2764.4	33172.8
88	18.76.1	Cutting holes up to 30x30 cm in walls including making good the same:With common burnt clay F.P.S. (non modular) bricks	Each	20	198.5	3970
89	19.15.1	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design :With 20x20 mm	Each	12	310.9	3730.8
90	19.19.1.1	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality:LD 2.5:Rectangular shape 600x450 mm internal	Each	2	1120.6	2241.2



30.1.1		Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with bricks in	Each	8	4266.8	34134.4
92	17.31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	15	1068.50	16027.5
93	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc.,	Each	15	713.30	10699.5
94	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	10	146.30	1463
95	17.23.2	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour: 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	M	10	424.00	4240
96	18.8.3	Providing and fixing 25 MM CPVC pipes	M	45	399.90	17995.5
97	18.8.4	Providing and fixing 32 MM CPVC pipes	M	50	457.80	22890
98	18.8.1	Providing and fixing 15 MM CPVC pipes	M	90	318.90	28701
99	18.8.2	Providing and fixing 20 MM CPVC pipes	M	40	374.00	14960
100	18.15.1	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore	Each	15	303.80	4557
101	18.16.1	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	Each	15	303.80	4557
102	18.16.2	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	Each	15	328.00	4920
103	18.17.1	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal	Each	10	532.30	5323
104	18.19.2.2	Providing and fixing gun metal non-return valve of approved quality (screwed end) : 32 mm nominal bore: Vertical	Each	4	777.90	3111.6
105	18.22.2	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	Each	4	190.10	760.4
106	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.	L	5000	9.70	48500

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107	27.7	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS:1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required :a)150 mm dia	90	Mtr.	1856.00	1,67,040.00
108	7.7	100 mm dia	40	Mtr.	1316.00	52,640.00
109	7.6	80 mm dia	80	Mtr.	951.00	76,080.00
110	7.4	50 mm dia	33	Mtr.	646.00	21,318.00
111	7.1	25 mm dia	120	Mtr.	359.00	43,080.00
112	27.9.2	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal/Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS 5290 (Type -A) with blank Gunmetal/Stainless Steel cap and chain as required : Single headed Stainless steel	6	Each	5722.00	34,332.00
113	27.17.2	Supplying and fixing first-aid Hose Reel with MS construction spray painted inpost office red, conforming to IS884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS: 12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. "Connections from riser with 25mm dia stop gunmetal valve & M.S. "Pipes and socket" (40 m)	9	Each.	9616.00	86,544.00
114	27.18.1	Supplying & fixing 63 mm dia gunmetal short branch pipe with 20mm nominal internal diameter size nozzle conforming to IS903 suitable for instantaneous connection to interconnect hose pipe coupling as required :(Gunmetal)	6	Each.	2393.00	14,358.00
115	27.11.5	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :100 mm dia	3	Each.	6056.00	18,168.00
116	27.11.6	150 mm dia	3	Each.	8241.00	24,723.00
117	27.11.4	80 mm dia	3	Each.	4588.00	13,764.00
118	27.14.5	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS:5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required 100 mm dia.	3	Each.	10478.00	31,434.00
119	27.14.7	150 mm dia.	3	Each.	17300.00	51,900.00



120	27.1.9	FIRE PUMPS & ACCESSORIES (a) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.(b) Suitable HP Squirrel cage induction motor, TEFC, synchronous speed 1500 RPM, suitable for operation on 415 volts, 3 phase 50 Hz, AC supply with IP 55 protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.(c) M.S. fabricated Common base plate, coupling, coupling guard, foundation bolts etc. as required.(d) Suitable cement concrete foundation duly plastered with anti vibration pads.1620 lpm at 56 m Head	1	Each.	281411.00	2,81,411.00
121	27.2.9	a) Supplying, installation, testing and commissioning of diesel engine driven main fire pump suitable for automatic operation and consisting of following, complete in all respects, as required: (Diesel Drive Pump)Horizontal type, multistage, centrifugal pump of cast of iron body and bronze impeller with stainless steel shaft, mechanical seal conforming to IS 1520.b) Suitable HP, 1500 RPM water cooled with radiator, diesel engine conforming to relevant IS standard complete with auto starting mechanism, 12 /24 volts electric starting equipment, diesel tank, exhaust pipe extended upto 10 m outside pump house duly insulated with 50 mm thick glass wool with 1.0 mm thick aluminium sheet cladding, residential silencer, instruments and protection as per standard specification, stop solenoid for auto stop in the event of fault with audio indications, painted with post office red colour etc. as required.c) M.S fabricated, common base plate, coupling, coupling guard, foundation bolts etc. as required.Suitable cement concrete foundation duly plastered and	1	Each.	512125.00	5,12,125.00

122	27.5.4	<p>Panel for Fire Pumps Diesel Engine Control</p> <p>Control for diesel engine comprising- Automatic/Manual selectors witch &amp; 3 attempts starting device, timers and relays as required, push buttons, start/stop in manual mode</p> <p>Indicating lamp for high/ Low Lub. Oil pressure, High Water Temp and Engine on indication</p> <p>Battery charger suitable for 12V/24V DC with boost and trickle selectors witch, 0-30 V DC voltmeter, and 0-20 ADC Ammeter</p> <p>All standard relay sand accessories for automatic operation of diesel engine</p> <p>System Controller Designing, Supply, Installation, Testing and commissioning of system controller to control operation of main electric fire pump, diesel pump, Pressurization pump, Terrace pump in sequence as per specification consisting of relays, timers. Sensors, annunciation window for fault</p>				
		<p>Incomings</p> <p>400A, 50kA 4 Pole MCCB, Ics=100% Icu Rating</p> <p>Digital Voltmeter 0-500V with selector switch</p> <p>Ammeter (0-400A) with selector switch &amp; CT set c.</p> <p>LED type RYB phase indicating lamps, ON, OFF, trip indicating lamps</p> <p>Set of Copper Bus Bar 500Amps</p>				
		<p>Outgoings</p> <p>( Note : All outgoing feeders for pumps should have digital Ammeter with selector switches, and LED type ON, OFF, trip indicating lamps)</p>				
		<p>Main Fire Pumps</p> <p>125 Amp, 50kA TPN MCCB, Ics=100% Icu, with fully automatic Star/Delta starter suitable for 60 hp pump with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation.</p> <p>2 sets</p>				
		<p>Jockey Pump</p> <p>63 Amp, 50kA TPN MCCB, Ics=100% Icu, with Suitable HP fully automatic Star/Delta starter with overload protection, current sensing type single phase preventor complete with all accessories and internal wiring required for automatic operation, selector switch for local/remote, auto/manual/OFF operation. - 2 sets</p>	1	SET	375827.00	3,75,827.00
123		<p>Providing, fixing, testing &amp; commissioning of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required</p>				
	27.21.3	Horizontal side wall sprinkler	30	Each.	505.00	15,150.00



		FIRE EXTINGUISHERS ISI marked (IS:2878) Portable fire Extinguisher, Carbon-dioxide type flat base including valve, discharge hose of not less than 10 mm dia. 1m long & complete in all respects including initial fill with CO2 gas confirming to IS:307-1966 filled to a filling ratio of not more than 0.667 of not more than 0.667 and wall suspension bracket. Capacity 4.5 Kg	10	Each.	12500.00	1,25,000.00
125		'ABC' stored pressure type Dry Chemical Powder (Mono-Ammonium Phosphate) 6 kg fire extinguisher with fixing hangers, hose, brackets, screws to required size etc., complete as per IS:14609. Capacity 6 Kg	12	Each.	6500.00	78,000.00
126	DSR 17.2.1.2	FIRE ALARM SYSTEM Supplying, installation, testing and commissioning of micro processor based intelligent addressable main fire alarm panel, central processing unit with the following loop modules and capable of supporting not less than 240 devices (including detectors) and minimum 120 detectors per loop and loop length up to 2 km, network communication card, minimum 320 character graphics/ LCD display with touch screen or other keypad and minimum 4000 events history log in the non volatile memory (EPROM), power supply unit (230± 5% V, 50 hz), 48 hrs back-up with 24 volt sealed maintenance free batteries with automatic charger. The panel shall have facility to connect printer to printout log and facility to have seamless integration with analog/digital voice evacuation system (which is part of the schedule of work under SH: PA System) and shall be complete with all accessories. The panel shall be compatible for IBMS system with open protocol BACnet/ Modbus over IP complete as per specifications.				
		Two Loop Panel.	1	Each.	239225.00	2,39,225.00
127	DSR 17.2.4	Supplying, installation, testing & commissioning of intelligent analog addressable photothermal detector complete with mounting base complete as required.	6	Each.	2858.00	17,148.00
128	DSR 17.2.6	Supplying, installation, testing & commissioning of intelligent addressable programmable sounder complete as required.	6	Each.	2651.00	15,906.00
129	DSR 17.2.5	Supplying, installation, testing & commissioning of response indicator on surface/recessed MS Box having two LED, metallic cover complete with all connections etc as required.	6	Each.	276.00	1,656.00
130	DSR 17.2.14	Supplying, installation, testing & commissioning of addressable manual call point complete as required.	6	Nos.	3871.00	23,226.00

131	24.2.1.1	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, beyond 90 metre & upto 150 metre depth below ground level. All types of soil. 300 mm dia	metre	110	₹ 567.90	62,469.00
132	24.3.2	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. 150 mm nominal size dia	metre	40	₹ 660.10	26,404.00
	24.3.4	50 mm nominal size dia	metre	40	₹ 236.70	9,468.00
133	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.				
	24.4.5	75 mm nominal size dia	metre	30	₹ 482.10	14,463.00
134	24.13	Providing and fixing suitable size threaded mild steel cap or spot welded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:				
	24.13.2	150 mm dia	each	1	₹ 210.70	210.70
135	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.				
	24.14.2	150 mm clamp	each	1	₹ 1,531.40	1,531.40
136		(c) 125mm/50mm PVC reducer	Each	1.00	658.80	658.80
137	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).				
	24.15.2	150 mm dia	each	1	₹ 281.80	281.80
138		(d) MS Centre guide	Kg	12.00	96.40	1,156.80
139		Providing fitting and G.M. fully way valve etc. all complete as per direction of E/I.	Each	2.00	630.00	1,260.00



	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	3.35	₹ 1,343.20	4,499.72
141	A/R	Carriage of "p" Gravel by Dalbhumgarh including loading unloading etc. all complete (Lead 450 K.M.)	cum	3.35	₹ 2,932.15	9,822.70
142		Supplying and providing Ventonite power etc. all complete as per direction of E/I.	P/Kg	300.00	3.64	1,092.00
143	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	hour	18	₹ 916.80	16,502.40
144	n.s	Supplying all equipments, tools and installation of 1.5 H.P. submersible Motor pump set of KSB) ISI make, 2900 rpm, cable of discharge 5000 litre L.P.H. at 45 mtr head with all necessary riser pipe, starter, central pannel, 1.25" full way valve, 1.25" M.S. clamp, N.P.2 and 1.25"x9" G.I. Nipple etc. all complete as per direction of E/I.	Each	1.00	32500.00	32,500.00
145	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				-
	18.9.4	32 mm nominal outer dia Pipes	metre	40	₹ 352.30	14,092.00
146	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				-
147	18.17.1	25 mm nominal outer dia Pipes	metre	7	₹ 532.30	3,726.10

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7.1a	20 mm nominal outer dia Pipes	metre	3	₹ 465.40	1,396.20	
1.3.3	Wiring for Light point/Fan point Exhanst Fan point etc. with 1.5 sqm PVC insulated copper conductor S/core cable in surface/recesse pvc conduct with piano type switches phenolic laminated sheet, suitable size pvc/G.I.	Nos	125	1,146.00	1,43,250.00	
150	1.7.1	Wiring for circet/submain wiring along with earth wire with copper conductiv single core cable in surface/recessed pvc conduct as required.(i) 2x1.5 MM + 1x1.5MM earth wire	M.	870	201.00	1,74,870.00
151	1.7.2	(ii) 2x2.5 MM+1x2.5 MM earth wire	M.	870	246.00	2,14,020.00
152	1.7.2	(ii) 2x6 MM+1x6 MM earth wire	M.	800	309.00	2,47,200.00
153	1.21.1	S/F/F of 20mm pvc conduct along with accessories in surfaes recess including cutting the walls and making good the same in case of recessed conduct as required.(i) 20mm Dia PVC pilors	M.	700	102.00	71,400.00
154	1.22	Suppying and fixing following size/ modules GI box alongtype switch/socket o with modular base & cover plate for modular switches in				
	1.27.1	(i)75x75x50mm deep(4"x4")	Nos	18	234.00	4,212.00
155	1.27.4	(i)205x78x50mm deep	Nos	54	345.00	18,630.00
156	1.24.1	S/F/F of 5/6 Amp. One way socket. On board/existing switch box/cover including connections etc. as required.(i) 5/6Amp. Switch	Nos	75	82.00	6,150.00
157	1.24.4	(i) 3 pin , 5/6 amps socket outlet	Nos	54	112.00	6,048.00
158	1.34	Supplying and fixing Batten/ angle holder including connection etc. as required.	Nos	150	80.00	12,000.00
159	2322	Regular/standard make 1400 mm sweep ceiling fan, minimum air delivery 245 m3/min and service value equal or more than 4.10 as Per BEE	Nos	55	1,900.00	1,04,500.00
160	2325	450 mm, 230V, A.C. exhaust fan	Nos	30	4,700.00	1,41,000.00
161	1632	400 amp. 3 pole MCCB 50KA thermal magnetic release	Nos	3.00	31,928.00	95,784.00
162	1747	63 amp. 4 pole MCB Changeover	Nos	3	2,854.00	8,562.00
163	2017	Surface mounted 36 watt LED flat panel luminaire (2ft X 2ft) which provides soft-light and glare free symmetrical illumination and integrated electronic driver . Minimum efficacy 100lm/w	Nos	40	2,100.00	84,000.00
164	2026	100 watt LED FLOOD light with pressure die cast housing, toughened glass, IP 65 protection and complete with electronic driver etc. Minimum efficacy 100 lm/	Nos	25	4,100.00	1,02,500.00
165	2023	30 watt LED street light with pressure die cast housing, toughened glass, IP 65 protection and complete with electronic driver etc. Minimum efficacy	Nos	50	1,600.00	80,000.00
166	6.1.6	Supplying and fixing of following types lamp in the existing electrical fitting/ fixtures etc. as required. Supplying and fixing of following types lamp in the existing electrical fitting/ fixtures etc. as required.	Nos	25	250.00	6,250.00



DSR 6.8.1	Supplying, installation, testing and commissioning of VRV/VRF system including indoor /outdoor units, piping, electrical power distribution/wiring, electrical panel, treated fresh air system	HP	10	55,000.00	5,50,000.00
168	cost of shifting of transformer	no	1.00	910292	9,10,292.00
169	Add GST 5.36%	Nos	1.00	2055734	21,53,280.00
170	Carriage Cost of Material stone	Cum	735.46	2467.06	18,14,423.95
171	c.sand	Cum	533.38	1182.13	6,30,524.50
172	Bricks	000 No	2,63,567.38	972.7	2,56,377.26
173	Cement	Mt	400.61	492.75	1,97,400.58
174	l.sand	Cum	339.45	310.47	1,05,389.04
175	Steel	Mt	127.96	492.75	63,052.29
176	Signorage Fee Carriage Cost of Material stone	Cum	48.69	2467.06	1,20,121.15
177	c.sand	Cum	17.58	1182.13	20,781.85
178	Bricks	000 no	607.50	972.7	590.93
179	l.sand	Cum	14.19	310.47	4,405.57

Rs 4,59,54,090.03

Satish Pal  
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BOQ approved for Rs. 4,59,54,090.00 from  
series No. 1 to 179. (Rupees Four crore  
Fifty nine Lakhs Fifty Four thousand Ninety  
only)

Shahid  
07/1/26  
EE (Hφ)

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