

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
	<b>Civil Works</b>				
1	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
	<b>All kinds of soil</b>	<b>SQM</b>	<b>985.00</b>	<b>₹ 34.15</b>	<b>₹ 33,637.75</b>
2	<b>EARTH WORK IN EXCAVATION</b>				
i)	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.				
	<b>All kinds of soil.</b>	<b>CUM</b>	<b>386.23</b>	<b>₹ 260.30</b>	<b>₹ 1,00,535.80</b>
ii)	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.				
	<b>Ordinary rock</b>	<b>CUM</b>	<b>386.23</b>	<b>₹ 632.95</b>	<b>₹ 2,44,464.59</b>
3	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
	<b>Ordinary or hard rock</b>	<b>CUM</b>	<b>226.76</b>	<b>₹ 227.40</b>	<b>₹ 51,564.09</b>
4	<b>SAND FILLING</b>				
	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	<b>CUM</b>	<b>276.10</b>	<b>₹ 2,123.75</b>	<b>₹ 5,86,364.02</b>
5	<b>Plinth Filling by local earth</b>				
	Excavating, supplying and filling of local earth (including royalty) by mechanical transport upto a lead of 5km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete.	<b>CUM</b>	<b>216.06</b>	<b>₹ 700.50</b>	<b>₹ 1,51,352.51</b>
6	Filling 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.	<b>CUM</b>	<b>348.68</b>	<b>₹ 196.00</b>	<b>₹ 68,340.75</b>
7	<b>PLAIN CEMENT CONCRETE</b>				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	<b>CUM</b>	<b>101.56</b>	<b>₹ 6,812.00</b>	<b>₹ 6,91,806.69</b>
	1:2:4 (1 cement : 2 coarse sand(zone III) : 4 graded stone aggregate 20 mm nominal size).	<b>CUM</b>	<b>3.15</b>	<b>₹ 7,878.50</b>	<b>₹ 24,817.28</b>
8	<b>REINFORCEMENT CEMENT CONCRETE</b>				
	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. <b>Note:</b> Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	All works upto plinth level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	<b>CUM</b>	<b>205.34</b>	<b>₹ 9,504.75</b>	<b>₹ 19,51,718.77</b>
	All works above plinth level upto floor V level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	<b>CUM</b>	<b>278.97</b>	<b>₹ 9,860.40</b>	<b>₹ 27,50,721.57</b>

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9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete	KG	54428.55	₹ 107.85	₹ 58,70,118.97
10	<b>FORM WORK</b>				
	Centering and shuttering including strutting, propping etc. and removal of form for all heights :				
	<b>Footing</b>	SQM	207.91	₹ 392.15	₹ 81,530.73
	<b>Plinth beam</b>	SQM	262.39	₹ 736.40	₹ 1,93,224.51
	<b>Column</b>				
	all floor	SQM	549.20	₹ 961.30	₹ 5,27,941.15
	Lintel all floor	SQM	278.77	₹ 736.40	₹ 2,05,284.61
	<b>Roof beam</b>				
	All floor	SQM	637.49	₹ 736.40	₹ 4,69,449.11
	<b>Roof slab</b>				
	G floor	SQM	1011.11	₹ 927.25	₹ 9,37,554.02
	Seftic tank	SQM	24.50	₹ 927.25	₹ 22,717.63
	<b>Staircase</b>	SQM	34.33	₹ 764.95	₹ 26,262.26
	<b>Weather shade, Chajjas, corbels etc., including edges</b>	SQM	96.15	₹ 951.10	₹ 91,444.70
	<b>Shelves</b>	SQM	56.39	₹ 927.25	₹ 52,290.53
	<b>BRICK WORK</b>				
11	<b>BRICKWORK IN FOUNDATION</b>				
	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand)	CUM	76.73	₹ 6,974.84	₹ 5,35,171.94
12	<b>BRICKWORK IN SUPER STRUCTURE</b>				
	Brick work with non modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength in super structure above plinth level up to floor V level in :				
	SUPER STRUCTURE	CUM	284.48	₹ 8,752.55	₹ 24,89,930.33
13	Half brick masonry with non modular fly ash bricks of class designation 10, conforming to IS :12894, in super structure above plinth and upto floor V level.				
	Cement mortar 1 : 4 (1 cement : 4 coarse sand)	SQM	243.87	₹ 1,105.80	₹ 2,69,673.52
ii)	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.				
		SQM	243.87	₹ 104.80	₹ 25,557.77
14	<b>CEMENT PLASTER (IN FINE SAND)</b>				
	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:6 (1 cement: 6 fine sand)				
	All floor	SQM	2740.69	₹ 383.00	₹ 10,49,683.12
15	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)				
	All floor	SQM	971.45	₹ 333.35	₹ 3,23,832.86
16	<b>CEILING PLASTER</b>				
	6 mm cement plaster of mix : 1:3 (1 cement : 3 fine sand)	SQM	1014.34	₹ 300.45	₹ 3,04,758.06
17	<b>Neat cement punning.</b>	SQM	72.00	₹ 79.95	₹ 5,756.40
18	<b>Grading roof for water proofing treatment with</b>				
	Cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	CUM	24.34	₹ 8,042.30	₹ 1,95,721.03
19	<b>MS GRILL</b>				
	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.				
	All floor Fixed to openings /wooden frames with rawl plugs screws etc.				
	All floor	KG	4392.64	₹ 219.10	₹ 9,62,427.01
20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				

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	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	SQM	74.66	₹ 3,473.85	₹ 2,59,340.27
	25 mm thick (for cupboard) including ISI marked nickel plated bright finished M.S. Piano hinges IS : 3818 marked with necessary screws	SQM	12.60	₹ 2,819.25	₹ 35,522.55
21	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
	125 mm	Nos	62.00	₹ 119.20	₹ 7,390.40
	100 mm	Nos	12.00	₹ 90.45	₹ 1,085.40
22	Providing and fixing magnetic catcher of approved quality in cupboard / wardrobe shutters, including fixing with necessary screws etc. complete.				
	<b>Triple strip vertical type</b>	Nos	12.00	₹ 52.50	₹ 630.00
23	Providing and fixing ISI marked oxidised M.S. door latches conforming to IS:5930 with screws etc. complete :(copper oxidised as per IS:1378)				
	<b>300X20X6</b>	Nos	31.00	₹ 98.35	₹ 3,048.85
24	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :(copper oxidised as per IS:1378)				
	<b>250X10</b>	Nos	62.00	₹ 83.90	₹ 5,201.80
25	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
	Using M.S. angels 40x40x6 mm for diagonal braces	SQM	10.71	₹ 5,804.35	₹ 62,164.59
26	Providing and fixing M.S. Tubular frames for doors, windows, ventilators and cupboard with rectangular/ L-Type sections, made of 1.60 mm thick M.S. Sheet, joints mitred, welded and grinded finish, with profiles of required size, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer.				
	Fixing with 15x3 mm lugs 10 cm long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	KG	828.75	₹ 195.20	₹ 1,61,772.00
27	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, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket 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, paneling and dash fasteners to be paid for separately)				
	<b>For fixed portion</b>				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG	750.00	₹ 530.90	₹ 3,98,175.00
28	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	KG	725.00	₹ 634.45	₹ 4,59,976.25
29	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / 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):				

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	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	SQM	27.99	₹ 1,176.80	₹ 32,938.63
	With 4.0 mm thick Acrylic Sheet as shutter.	SQM	116.51	₹ 3,986.00	₹ 4,64,388.93
30	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter 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 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm <sup>2</sup> , modulus of elasticity 850 N/mm <sup>2</sup> 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	SQM	42.53	₹ 4,346.70	₹ 1,84,843.42
31	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window /clerestory windows & desertory other Frames /Chowkhat 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) & 1100 N (Edge), minimum compressive strength of 58 N/mm <sup>2</sup> , modulus of elasticity 900 N/mm <sup>2</sup> 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 separately).				
	Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.				
	Frame size 65 x 100 mm	RMT	133.65	₹ 1,111.30	₹ 1,48,525.25
32	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption 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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
	Floor tile	SQM	717.09	₹ 1,553.45	₹ 11,13,959.58
33	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
	Size of Tile 600x600 mm	SQM	65.72	₹ 1,623.05	₹ 1,06,670.90

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34	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 with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	Floor tile	SQM	192.37	₹ 1,948.25	₹ 3,74,787.77
	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and 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 slabs, including rubbing and polishing complete.				
	Skirting	SQM	30.83	₹ 2,354.70	₹ 72,601.29
35	CERAMIC TILE				
	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.				
	<b>FLOOR TILE</b>	SQM	124.03	₹ 1,096.55	₹ 1,36,008.53
36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), 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.				
	CERAMIC WALL TILE	SQM	432.41	₹ 1,267.95	₹ 5,48,267.92
37	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	SQM	4165.07	₹ 73.95	₹ 3,08,006.98
38	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	Two coats	SQM	3193.62	₹ 142.80	₹ 4,56,049.04
39	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 priming coat of exterior primer applied @ 2.20 kg/10 sqm)	SQM	971.45	₹ 171.80	₹ 1,66,895.11
40	<b>Enamel Paint</b>				
	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	SQM	180.95	₹ 226.25	₹ 40,939.01
41	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	SQM	60.59	₹ 749.30	₹ 45,401.96

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42	Providing & Applying polymer modified, flexible cementitious negative side waterproofing coating with elastic waterproofing polymers on interior wall plaster surface in three coats @14.35 kg /10 sqm. one coat of self priming of cementitious waterproofing polymer(dilution with water in the ratio of 1:1) and two coats of cementitious waterproofing polymer (dilution with water in the ratio of 3:1 ) after scrapping and properly cleaning the surface to remove pre-existing paint film & loose particles till plaster is visible, complete in all respect as per the direction of Engineer-in-Charge.				
		SQM	274.75	₹ 447.35	₹ 1,22,907.46
43	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of course sand, compacting and proper embedding / laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, all complete as per manufacturer's specifications & direction of Engineer -in- Charge.				
	80mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern.	SQM	13.87	₹ 1,091.50	₹ 15,133.65
44	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).				
		KG	112.00	₹ 772.40	₹ 86,508.80
45	Antitermite Treatment				
	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion):				
i)	Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.:	RMT	134.65	₹ 53.45	₹ 7,197.04
ii)	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:	SQM	553.39	₹ 310.05	₹ 1,71,578.21
46	Providing and fixing 18mm thick both sides Pre-laminated cement bonded wood particle board as per IS : 15786:2008 of approved brand and shade with suitable full threaded steel screws etc. in partitions, boxes, shelves, racks and cupboard, kitchen cabinet under kitchen counter etc. all complete as per direction of Engineer-in-charge (Note: Fittings to be paid separately).				
	18MM THICK	SQM	100.59	₹ 1,362.30	₹ 1,37,028.65
47	Providing precast cement concrete Jali 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 6mm nominal size ), reinforced with 1.6 mm dia mild steel wire, including centering and shuttering, roughening cleaning, fixing and finishing in cement mortar 1:3 (1 cement: 3 fine sand) etc. complete, excluding plastering of the jambs, sills and soffits.				
	50MM THICK	SQM	5.40	₹ 1,886.90	₹ 10,189.26

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	<b>Subhead- 1 (Internal Electrification)</b>				
48	Wiring for light point/ fan/ exhaust fan point/ call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable in surface / recessed 2 mm thick PVC conduit with modular switch and earthing the point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable including providing modular box with cover of requisite number of modules including providing cover plates as required. Make: Conduit:precision/ Norepack Wire:KEI/Finolex/Havells Switch & socket: LK(FORMERLY L&T)/ Legrand (Myirus)/ schneider-Zenclo/ Panasonic(vision)				
a)	Single light point controlled by one 6A switch or first light point of group control.	Each	141.00	₹ 1,397.00	₹ 1,96,977.00
b)	Subsequent point of group control	Each	120.00	₹ 804.00	₹ 96,480.00
49	Supplying and fixing two module steeped type electronic fan regulator on the existing modular plate switch box including connections etc. as required.	Nos.	81.00	₹ 616.00	₹ 49,896.00
50	Supplying and fixing 6 Amp socket with 6 Amp switch (Modular Type) on existing board.	Nos.	15.00	₹ 406.00	₹ 6,090.00
51	Supplying and fixing including testing and commissioning of 6A modular socket outlet with 6 Amp switch including providing GI modular box with faceplate etc as required.				
a)	1 nos 6 Amp 3-pin socket with 6 Amp switch.	Nos.	94.00	₹ 548.00	₹ 51,512.00
b)	2 nos 6 Amp 3-pin socket with 2 nos 6 Amp switch.(TV, COMPUTER,MAINTENANCE PURPOSE POINTS)	Nos.	7.00	₹ 602.00	₹ 4,214.00
52	Supply, installation, testing & commissioning of 6 / 16 Amp Plug Boards consisting of a 16 Amp clip-in type modular switch with indicator and a 6/16 Amp clip-in type modular socket fixed on metallic concealed box including interconnections and making good the damages caused complete as required and as per direction of Engineer-in-charge.	Nos.	3.00	₹ 684.00	₹ 2,052.00
53	Supplying and fixing of indian standard 25amps, 240volts, SPN Industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 25 amps 'C' series 2 modular motor starter in sheet steel enclosure on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc.(AC POINT)	Each	5.00	₹ 1,249.47	₹ 6,247.35
54	Supplying and fixing modular blanking plate on the existing modular plate switch box etc. as required.	Nos.	15.00	₹ 35.20	₹ 528.00
55	<b>Light Fixture</b>				
	SITC of Surface Mounted Led tube light fixture with inbuilt rod comprising of 20W LED tube with non integral / integral driver, 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy > 120 lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory i/c connection wire, testing etc. to complete the job. Make:Bajaj/Halonix/Philips/panasonic/wipro.	Each	138.00	₹ 1,081.00	₹ 1,49,178.00
56	SITC of Recessed/surface Mounted Led Down Lighter comprising of 18W/20W LED with non integral / integral driver, 6500K color temp having 40000 burning hrs life with minimum @ L 70, system lumen output should be minimum with efficacy > 120 lm/W. LED driver PF 0.95 & THD < 20%. The colour rendering index of LED light should be more than 70. Submission LM 80-08 Form LED Source Manufacturer & LM79-08 / IS16106 from NABL approved lab. Manufacturer mandatory i/c connection wire, testing etc. to complete the job. Make:Bajaj/Halonix/Philips/panasonic/wipro.	Each	19.00	₹ 2,732.00	₹ 51,908.00

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
57	Wiring for circuit/ submain wiring along with earth wire of following size of FRLS heavy gauge PVC insulated copper conductor single core cable in heavy duty PVC conduit laid in surface/ recess as required.Make-KEI/Finolex/Havells				
a)	2X2.5 + 1X2.5 sqmm FRLS Cu wire (for Light plug circuit wiring)	mtr	2050.00	₹ 242.00	₹ 4,96,100.00
b)	2X4 + 1X4 sqmm FRLS Cu wire (for power plug ,AC & SPN DB submain)	mtr	800.00	₹ 294.00	₹ 2,35,200.00
c)	4X6 + 2X6 sqmm FRLS Cu wire (submain LIGHT AND UPS DB)	mtr	200.00	₹ 673.00	₹ 1,34,600.00
	4X10 + 2X6 sqmm FRLS Cu wire (submain POWER DB,ACDB)	mtr	250.00	₹ 925.00	₹ 2,31,250.00
<b>58</b>	<b>PVC Conduiting for Point, Circuit, Submain Wiring</b>				
	Supplying and fixing of following sizes of 2.0mm thick electrical grade FRLS PVC conduit run in concealed in ceiling, wall, column, floor with necessary fixing accessories for Point wiring, ckt. mains or submains as required with necessary accessories such as bends, collars, junction boxes, endcaps and pull boxes,Solvent cement adhesive & wires and with covering covering plate as required as per the site condition and as approved by the client/ consultants, as per Drawings/ layout provided.  After laying of PVC conduits and concreting , Conduit paths of respective points wiring, Circuit, Submain wiring shall be ensured and secured by running/ pulling GI Fish wires through the same conduits.				
a)	25mm dia PVC conduit laying for submain,POINT,Circuit wiring,CCTV, FIRE, ELV		1020.00	₹ 125.17	₹ 1,27,668.50
b)	20mm dia PVC Conduit laying		300.00	₹ 123.23	₹ 36,968.46
59	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. (Make : Crompton/ Orient/ Havells/Baja/Khaitan).				
(a)	1200 mm sweep	Nos.	81.00	₹ 2,402.00	₹ 1,94,562.00
60	Supplying, installation, testing and commissioning of Exhaust fan / fresh air fan with louvre (Make -Bajaj/Usha/ Crompton/ Orient/ Khaitan/ Havells) as required.				
a)	225 mm sweep fibre body fresh air fan	Nos.	23.00	₹ 1,448.00	₹ 33,304.00
	<b>6KVA UPS FOR ELV AND OFFICE ROOM</b>				
61	Supply, Installation, Testing & Comissioning of 6 KVA IGBT based True Online Smart UPS dual mains I/P with 12V/18AHX15 Nos of VRLA Sealed maintenance free (independent 12V units cell bank capacity designed for end cell voltage of 1.75V at 27 degree C.) Battery with 30 Min Back Up on 90 % Running load along MS Battery Rack & Battery interconnection link with CB and other standard accessories for installation.(Make: RIELLO / EMERSON /APC ).	Nos.	1.00	₹ 2,65,480.00	₹ 2,65,480.00
62	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Nos.	10.00	₹ 28.00	₹ 280.00
	<b>DBS</b>				
63	Supplying and fixing following way, TP and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCOs/ISOLATORS) Make-LK (FORMERLY L&T)/ ABB/ Legrand/ Siemens/ Schneider )				



BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
a)	6way, Double door, TPN DB	Nos.	2.00	₹ 4,377.12	₹ 8,754.24
b)	8way, Double door, TPN DB	Nos.	2.00	₹ 5,250.96	₹ 10,501.92
c)	12way, Double door, SPN DB	Nos.	2.00	₹ 2,037.20	₹ 4,074.40
d)	4way, VTPN DB(ups main DB)	Nos.	1.00	₹ 6,610.56	₹ 6,610.56
64.00	Supplying and fixing following rating RCBOs/ MCBs in the existing DB complete with connections,testing and commissioning etc. as required Make-LK (FORMERLY L&T)/ ABB/ Legrand (Ekinoxe3/ siemens (Betaguard)/ Schneider Acti9/)				
a)	40 Amps4P, 10 KA MCB	Each	2.00	₹ 2,050.00	₹ 4,100.00
b)	63 Amps4P MCB	Each	3.00	₹ 2,050.00	₹ 6,150.00
c)	25 Amps2P RCCB	Each	6.00	₹ 1,881.00	₹ 11,286.00
d)	6A/32A SPMCBs(C-Curve)	Each	80.00	₹ 329.00	₹ 26,320.00
e)	32 Amps2P RCBO,30mA	Each	9.00	₹ 3,412.00	₹ 30,708.00
	<b>FLOOR PANEL</b>				
65.00	Supply,installation, testing & commissioning of testing & commissioning of Indoor <b>type FLOOR Panel (at GF)</b> suitable for 415Volts 3Phase 4wiresystem, fabricated from 14/16SWG CRCA sheet steel, single fronted, free standing, front hinged, rear removable, extendable on both sides, dust & vermin proof, cubicle type, floor mounted, undrilled gland plates at top/bottom, complete with internal wiring, ferrules, name plates, painting etc. <b>Make-LK(FORMERLY L&amp;T)/Schneider/ABB/Legrand</b>				
	FLOOR PANEL				
	<b>Busbar</b> -200 Amp busbar with SC rating of 25 KA suitable for operation at 415 Volt, 50 HZ , 3 phase Supply.				
	One (1)-Incomer feeders from existing feeder pillar				
	One (1) - 200 Amp, 36 KA, 4P MCCB,with adjustable Micro Processer Based Release with Ics=100% Icu (LSI Protection) with 3 NosIndicating lamp for ON/OFF/Trip with control fuse/ MCB, 3 Nos 200/5 A 15VA CI 1.0 CTs, 1No - Multifunction meter (V,A,KWHR, KW, P, F)				
	One(1)Multifunction meter (V,A,KWHR, KW, P, F)				
	One Set ON/OFF Indicating lamp with control fuse/ MCB				
	Three(5) - Outgoing Feeders for L/P DB,S,FIRE PANEL,UPS and one spare each Comprising of				
	One (1)- 63A,4P, 25KA, MCCB with 3 Nos Phase indicating lamps with control fuse/ MCB, 3 Nos 63/5 A 15VA CI 1.0 CTs with all accessories				
	One(1)Multifunction meter (V,A,KWHR, KW, P, F)				
	One Set ON/OFF Indicating lamp with control fuse/ MCB				
	Two(3) - Outgoing Feeders for VRF ODUs and each Comprising of				
	One (1)-40A 4P MCCB				
	One Set ON/OFF Indicating lamp				
	PANEL AS ABOVE	Nos.	1.00	₹ 1,79,986.00	₹ 1,79,986.00
66.00	<b>Cable tray</b>				
	Supplying instalaltion hot dip galvanized perforated type cable tray with perforation not more than 17.5% of following size including installation along wall/ suspended from ceiling with brackets/ threaded suspenders including bends etc as required Make-BEC/MEM.				
a)	150 mm (W) X 50 mm (H) with 1.6 mm thick sheet	Mtr	60.00	₹ 630.08	₹ 37,804.80
b)	300 mm (W) X 50 mm (H) with 1.6 mm thick sheet	Mtr	30.00	₹ 847.84	₹ 25,435.20
67.00	<b>Cable, Cable Tray,End Termination &amp; Cable Jointing</b>				
	Supplying & Testing of 1.1 KV grade Aluminium XLPE Armoured power cable of following size suitable for 415 Volt, 3Ph, 50 c/s supply.				
a	3.5C X 70 sqmm(TRANSFORMER LT PANEL)	Mtr	100.00	₹ 819.00	₹ 81,900.00
	<b>Cable laying</b>				
68.00	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1KV grade of following size in RCC/HUME/METAL pipe is required.				
a)	Above 35 sqmm and upto95 sqmm	Mtr	100.00	₹ 356.40	₹ 35,640.00
	TERMINATION OF CABLES :-				

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
69.00	Supply & Making end Termination with brass compression gland and aluminium lugs for PVC insulated and PVC sheathed cable of 1.1 kv grade (without cost of Cable)				
a)	3.5C X 70 sqmm	Each	2.00	₹ 417.86	₹ 835.71
70.00	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.direct in ground(75 cm belowground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required				
a)	90 mm dia(OD-90 mm & ID-76 mm nominal)	Mtr	400.00	₹ 151.79	₹ 60,714.29
71.00	Excavation for HDPE pipe is required.				
	for 63MM DIA	Mtr	60.00	₹ 407.00	₹ 24,420.00
72.00	Earthing				
a)	Earthing with GI earth pipe 4.5 meter long,40mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal/coke and salt as required	Nos.	2.00	₹ 5,809.32	₹ 11,618.64
b)	Providing and fixing 25mm X 5 mm copper strip at 0.50 meter below ground/surface including connection/ termination with brass nut, bolt, spring, washer excavation and refilling (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm) as required.	Mtr	30.00	₹ 855.00	₹ 25,650.00
c)	Providing and fixing 25mm X 5 mm GI strip at 0.50 meter below ground/surface including connection/termination with nut, bolt, spring, washer excavation and refilling (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm) as required.	Mtr	30.00	₹ 126.72	₹ 3,801.60
d)	Providing and fixing 6 SWG GI wire on surface or in recess for loop earthing along with cables etc as required.	Mtr	200.00	₹ 36.96	₹ 7,392.00
	<b>LIGHTNING PROTECTION SYSTEM</b>				
	<b>Air Terminal</b>				
73.00	Supply , Installation, Testing & commissioning of 8 mm Aluminum Round Conductor. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Mtr	111.00	₹ 330.00	₹ 36,630.00
74.00	Supply , Installation, Testing & commissioning of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	54.00	₹ 135.00	₹ 7,290.00
75.00	Supply , Installation, Testing & commissioning of Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	48.00	₹ 398.00	₹ 19,104.00
76.00	Supply , Installation, Testing & commissioning of cross universal connector: For T and cross connection, to route vertical down conductor /mesh formation made of hot dipped galvanised iron with necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts . Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	12.00	₹ 561.00	₹ 6,732.00
77.00	Supply , Installation, Testing & commissioning of expansion piece with connector: For equalising temperature related length changes. Necessary on conductors length over 20 meters. For round conductor Rd 8/ALU. Tested for 100kA lightning current. (Make:OBO/ABB/DEHN)	Nos	12.00	₹ 554.00	₹ 6,648.00

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
78.00	Supply , Installation, Testing & commissioning of Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Tested as per IEC 62561.(2nos/expansion piece ).(Make:OBO/ABB/DEHN)	Nos	12.00	₹ 402.00	₹ 4,824.00
79.00	Supply , Installation, Testing & commissioning of Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC -62305 part-3 Nominal size Ø10/16 mm aluminium rod: 4 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	12.00	₹ 5,367.00	₹ 64,404.00
80.00	Supply , Installation, Testing & commissioning of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and clamp tested upto 100KA lightning current . (Make:OBO/ABB/DEHN)	Nos	4.00	₹ 4,460.00	₹ 17,840.00
81.00	Supply , Installation, Testing & commissioning of Stand for Fang Fix system 16 kg made up of frost resistant concrete. (Make:OBO/ABB/DEHN)	Nos	4.00	₹ 1,637.00	₹ 6,548.00
	<b>Down conductor</b>				
82.00	Supply , Installation, Testing & commissioning of 8 mm Aluminum Round Conductor. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Mtr	125.00	₹ 330.00	₹ 41,250.00
83.00	Supply , Installation, Testing & commissioning of Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder. Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	80.00	₹ 135.00	₹ 10,800.00
84.00	Supply , Installation, Testing & commissioning of Test Joint (Folding Clamp) suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer. Tested for 100kA lightning current. (Make:OBO/ABB/DEHN)	Nos	6.00	₹ 718.00	₹ 4,308.00
	<b>Ring &amp; vertical earthing system</b>				
85.00	Supply , Installation, Testing & commissioning of Galvanised Steel Flat 30X3 mm thickness from earth electrode directly in ground as required. Flat conductor Hot Dipped Galvanized. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Mtr	110.00	₹ 480.00	₹ 52,800.00
86.00	Supply , Installation, Testing & commissioning of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate. Tested for 100kA lightning current. (Make:OBO/ABB/DEHN)	Nos	12.00	₹ 491.00	₹ 5,892.00
87.00	Supply , Installation, Testing & commissioning of flat conductor holder- Fit: FL 30, With mounting hole 6.2 x 22 mm, With 2 cylinder bolts M6 x 16 and over-piece from hot-dip galvanised steel, Bottom section from polyamide, black. Tested as per IEC 62561. (Make:OBO/ABB/DEHN)	Nos	12.00	₹ 512.00	₹ 6,144.00
88.00	Supply , Installation, Testing & commissioning of Plastic Corrosion Protection strip: Approx 1.1 mm thick. Width 50mm. Made of petrolatum- coated chemical fibre fabric.(Make:OBO/ABB/DEHN)	Nos	1.00	₹ 1,603.00	₹ 1,603.00

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
89.00	Supply , Installation, Testing & commissioning of UL Listed maintenance free ,Low carbon copper coated earth rod of 3 metre electrode having diameter of 14.2 mm with copper coating thickness of 250micron tested as per IEC 62561-2 (Make:OBO/ABB/DEHN) Supply , Installation, Testing & commissioning of universal clamp made of SS to connect rod with flat conductor (Make:OBO/ABB/DEHN)  Supply , Installation, Testing & commissioning of Earth conductivity enhancing mineral compound shall be of 25 kg/pit tested as per IEC 62561-7,TCLP tested (Make:OBO/ABB/DEHN) Supply , Installation, Testing & commissioning of The above arrangements shall be provided with Heavy duty earth champer of 5000kg load bearing capacity to ensure the safety of earthing system (Make:OBO/ABB/DEHN).	Nos	6.00	₹ 15,444.00	₹ 92,664.00
<b>WATER SUPPLY &amp; SANITARY WORKS</b>					
90.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) ipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Make:ASTRAL/ASHIRVAD/AJAYA/Akg,SUPREME.				
Internal work - Exposed on wall					
	20mm dia	metre	30.00	₹ 335.00	₹ 10,050.00
	25 mm dia	metre	35.00	₹ 401.55	₹ 14,054.25
	32 mm dia	metre	38.00	₹ 518.75	₹ 19,712.50
	40 mm dia	metre	26.00	₹ 702.95	₹ 18,276.70
	50 mm dia	metre	18.00	₹ 934.15	₹ 16,814.70
91.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Make:ASTRAL/ASHIRVAD/AJAYA/Akg,SUPREME.				
Concealed work, including cutting chases and making good the walls					
	15 mm dia	metre	30.00	₹ 497.80	₹ 14,934.00
	20 mm dia	metre	25.00	₹ 537.60	₹ 13,440.00
	25 mm dia	metre	35.00	₹ 627.25	₹ 21,953.75
	32 mm dia	metre	40.00	₹ 739.30	₹ 29,572.00
92.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC lain & 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. Make:ASTRAL/ASHIRVAD/AJAYA/Akg,SUPREME.				
External work					
	15 mm dia	metre	35.00	₹ 244.70	₹ 8,564.50
	20 mm dia	metre	28.00	₹ 274.30	₹ 7,680.40
	25 mm dia	metre	35.00	₹ 355.40	₹ 12,439.00
	32 mm dia	metre	22.00	₹ 438.60	₹ 9,649.20
	40 mm dia	metre	18.00	₹ 563.05	₹ 10,134.90
	50 mm dia	metre	21.00	₹ 794.25	₹ 16,679.25
93.00	Providing all labour,T&P for cutting holes in bricks or stone masonry wall for taking pipes in all floors and making good the damages with cement concrete 1:2:4 finished smooth with CP 1:4 to original shape including cost of all materials, curing, conveyance, taxes, duties etc. all complete as per specification & direction of Engineer-in-charge.				

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
a	For 15mm to 50mm dia pipe to pass in 125mm to 250mm thick wall	nos	40.00	₹ 362.40	₹ 14,496.00
b	For 75mm to 150mm dia pipe to pass in 250mm thick wall	nos	46.00	₹ 382.40	₹ 17,590.40
94.00	Providing all labour,T&P and cutting holes in RCC chajja/roof/floor for taking pipes through and making good the damages with supply of all required materials etc. complete as per the direction of the Engineer-in-charge.	nos	45.00	₹ 377.10	₹ 16,969.50
95.00	Providing all materials, labour, T&P for fitting & fixing of following Bronze Ball Valves confirming to IS-778 with ISI mark in all floor & fixing with the pipes after cutting the pipes to required shape & size including wastage etc. of following nominal diameter, all complete including testing the joints with required water pressure.The cost inclusive of all taxes, duties, transportation scaffolding etc. all complete as per specification and direction of Engineer-in-charge.				
a	25mm dia Bronze ball valve	nos	10.00	₹ 696.00	₹ 6,960.00
b	32mm dia Bronze ball valve	nos	15.00	₹ 1,224.00	₹ 18,360.00
c	40 mm dia Bronze ball valve	nos	16.00	₹ 1,487.80	₹ 23,804.80
96.00	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 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: Make : JAQUAR/HINDWARE/CERA/PARRYWARE.				
	17.1.1 White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	12.00	₹ 6,767.40	₹ 81,208.80
97.00	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 :all complete as per direction of Engineer-in-charge. Make : JAQUAR/HINDWARE/CERA/PARRYWARE.				
	E.W.C. pan with ISI marked white solid plastic seat and lid	sets	5.00	₹ 6,515.55	₹ 32,577.75
98.00	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: etc. including all taxes, duties, transportation etc. all complete as per direction of EIC. (Make:JAQUAR/HINDWARE/CERA/PARRYWARE)				
	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	nos	21.00	₹ 2,301.75	₹ 48,336.75
99.00	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm 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 : all complete as per specification & direction of the Engineer-in-charge. (Make:HINDWARE/PARRYWARE/CERA)				
	17.5.1 Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	nos	11.00	₹ 12,071.75	₹ 1,32,789.25
	Supplying, fitting and fixing of following types CP/PTMT fittings of approved make and quality confirming to relevant IS specifications with leak proof threaded joints including the cost of all materials, cost of labour, conveyance, taxes, loading, unloading, T&P, etc, all complete as per the direction of Engineer-in-Charge.				

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
100.00	Providing and fixing PTMT bib cock of approved quality and colour.15 mm nominal bore, 122mm long, weighing not less than 99 gms	each	6.00	₹ 161.20	₹ 967.20
101.00	Providing and fixing PTMT bib cock of approved quality and colour.15 mm nominal bore, 165 mm long, weighing not less than 110 gms	each	11.00	₹ 176.85	₹ 1,945.35
102.00	Providing and fixing PTMT stop cock of approved quality and colour.15 mm nominal bore, 86 mm long, weighing not less than 88 gms	each	5.00	₹ 118.50	₹ 592.50
103.00	Providing and fixing PTMT Concealed stop cock, 15 mm nominal bore, 108 mm long, weighing not less than 108 gms	each	5.00	₹ 218.10	₹ 1,090.50
104.00	Providing and fixing PTMT pillar cock of approved quality and colour. 15 mm nominal bore, 125 mm long foam flow, weighing not less than 120 gms	each	21.00	₹ 224.10	₹ 4,706.10
105.00	Providing and fixing PTMT, push cock of approved quality and colour.15 mm nominal bore, 98 mm long, weighing not less than 75 gms	each	2.00	₹ 112.80	₹ 225.60
106.00	Providing and fixing PTMT grating of approved quality and colour.125 mm nominal dia with 25 mm waste hole	each	22.00	₹ 51.85	₹ 1,140.70
107.00	Providing and fixing PTMT Ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./ H.P.H.D. plastic ball. 20 mm nominal bore, 120 mm long, weighing not less than 198 gms	each	5.00	₹ 257.60	₹ 1,288.00
108.00	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	21.00	₹ 156.90	₹ 3,294.90
109.00	Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	26.00	₹ 111.45	₹ 2,897.70
110.00	Providing and fixing unplasticised P.V.C. connection pipe with PTMT Nuts, collar and bush of approved quality and colour 15 mm nominal bore with 45 cm length	each	16.00	₹ 121.90	₹ 1,950.40
111.00	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.	each	28.00	₹ 2,607.50	₹ 73,010.00
112.00	Providing and fixing PTMT 15 mm Urinal spreader size 95x69x100 mm with 1/2" BSP thread and shapes, weighing not less than 60 gms	each	11.00	₹ 107.20	₹ 1,179.20
113.00	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	21.00	₹ 1,607.95	₹ 33,766.95
114.00	Providing and fixing PTMT swivelling shower, 15 mm nominal bore, weighing not less than 40 gms	each	11.00	₹ 121.40	₹ 1,335.40
115.00	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : complete as per specification and direction of the Engineer in charge				
	610x510 mm bowl depth 200 mm	each	2.00	₹ 4,940.80	₹ 9,881.60
116.00	Shower Arm	each	11.00	₹ 655.20	₹ 7,207.20
117.00	Supply, installation,testing & commisioning of water cooler cum purifier with chiller in floor of following capacity:60/80 SS including fixing the same on the floor with necessary water connection & waste waste arrngments with all labour, T&P etc.all complete as per the specification & direction of EIC. (As per Model :AG Green pure Chill 80SS of Aquaguard/ IONEXCHANGE)				
	Zero B Storage Cooler cum UV Water Purifier 60/80/120 AquaguardGreen Storage Cooler-cum-Purifier Model- AG Green Pure Chill 120PSS UV,	each	2.00	₹ 55,000.00	₹ 1,10,000.00

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
118.00	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), oundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : The cost inclusive of all materials, labour, T&P etc. complete as per specification & direction of Engineer-in-charge.				
	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) :				
119.00	With common flyash bricks of class designation 7.5	each	1.00	₹ 32,857.85	₹ 32,857.85
120.00	Extra for every additional depth of of manhole size 1200mmx900mm	metre	3.00	₹ 10,585.50	₹ 31,756.50
121.00	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 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 all complete as per direction of Engineer-in-Charge. (Make -Supreme/Sintex)	litre	6000.00	₹ 11.00	₹ 66,000.00
122.00	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type				
	With common Flyash bricks of class designation 7.5	nos	4.00	₹ 2,707.65	₹ 10,830.60
123.00	Constructing brick masonry chamber for underground C.I. inspection chamber and bends with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg), R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 fine sand : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand), finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete as per standard design:& direction of Engineer-in-charge.				
	19.30.3.1 Inside dimensions 600x 850 mm and 45 cm deep for pipe line with three or more inlets :With common flyash bricks of class designation 7.5	nos	2.00	₹ 9,594.35	₹ 19,188.70
124.00	Extra for every additional depth beyond 450 mm size 600mmx850mm	metre	5.00	₹ 7,789.85	₹ 38,949.25
125.00	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring onforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. including all taxes, duties, transportation & scaffolding etc. all complete as per specification & direction of the Engineer-in-charge. Make: ASTRAL/ASHRIVAD/AJAYA/Akg/SUPREME.				
	110 mm diameter	metre	10.00	₹ 319.75	₹ 3,197.50

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
126.00	Providing and fixing on wall face unplasticised Rigid PVC pipes conforming to IS : 13592 Type B, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. including all taxes, duties, transportation & scaffolding etc. all complete as per specification & direction of the Engineer-in-charge. Make: ASTRAL/ASHRIVAD/AJAYA/Akg/SUPREME.				
a	110 mm dia soil pipe	metre	24.00	₹ 1,009.10	₹ 24,218.40
b	110 mm dia waste pipe	metre	26.00	₹ 1,120.00	₹ 29,120.00
c	75 mm dia soil pipe	metre	32.00	₹ 850.00	₹ 27,200.00
127.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.including all taxes, duties, transportation & scaffolding etc. all complete as per specification & direction of the Engineer-in-charge. Make: ASTRAL/ASHRIVAD/AJAYA/Akg/SUPREME.				
	75 mm Pushfit Coupler	nos	10.00	₹ 79.80	₹ 798.00
	110mm Pushfit Coupler	nos	15.00	₹ 110.60	₹ 1,659.00
	110mm x110mm P-Trap	nos	16.00	₹ 275.00	₹ 4,400.00
	75 mm bend	nos	24.00	₹ 91.80	₹ 2,203.20
	110mm bend	nos	14.00	₹ 132.00	₹ 1,848.00
	110mm door bend	nos	30.00	₹ 131.20	₹ 3,936.00
	75 mm Shoe	nos	25.00	₹ 81.10	₹ 2,027.50
	110mm Shoe	nos	20.00	₹ 115.95	₹ 2,319.00
	75 mm dia Single Tee with Door	nos	28.00	₹ 141.55	₹ 3,963.40
	75 mm dia Single Tee without Door	nos	14.00	₹ 141.55	₹ 1,981.70
	110mm dia Single Tee with Door	nos	20.00	₹ 205.45	₹ 4,109.00
	75 mm dia Single Tee without door	nos	20.00	₹ 124.20	₹ 2,484.00
	110mm dia Single Tee without door	nos	18.00	₹ 190.75	₹ 3,433.50
	110mm WC connector straight with lip ring	nos	16.00	₹ 513.60	₹ 8,217.60
	PVC Clamp Suitable for 110mm dia pipe	nos	37.00	₹ 145.00	₹ 5,365.00
	110mm dia Vent cowl	nos	4.00	₹ 62.50	₹ 250.00
	Earth work :				
128.00	Earth work in all kinds of soil within 50m initial lead & 1.5m initial lift including dressing, levelling & breaking clods to maximum 5cm to 7cm & laying in layers not exceeding 0.3m in depth & as per specification & direction of Department.	cum	12.00	₹ 223.67	₹ 2,684.06
129.00	Filling foundation trenches and Plinth with excavated & selected earth, laying in layers not exceeding 23cm thick well watered & rammed etc. complete including labour , T&P, lead & lift cost & conveyance, loading, unloading etc. complete as per specification & direction of EIC.	cum	8.00	₹ 124.26	₹ 994.10
130.00	Providing and laying in trench cement concrete (1:3:6) with 40mm size hard granite metal in the following type of bedding and hunching for RCC NP3Spigot socket concrete pipes of the following internal diameter including curing complete as per specification & direction of E-i-c.				
	For 150mm dia pipe	metre	10.00	₹ 4,726.80	₹ 47,268.00
131.00	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :as per specification & direction of EIC. (Excluding cost for earth wok, back filling which will be paid separately).				
a	150mm (NB) dia NP 2RCC S/S pipe	metre	20.00	₹ 556.45	₹ 11,129.00
b	250 mm (NB) dia NP 2RCC S/S pipe	metre	24.00	₹ 899.80	₹ 21,595.20



BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
	<b>FIRE FIGHTING SYSTEM</b>				
	<b>FIRE DOWNCOMER</b>				
132	Supply , installation, testing & commissioning of Motor driven Booster Centrifugal monobloc terrace pump delivering 450LPM at 35 MWC head with CI casing bronze impeller and SS shaft for down comer system with 4 pole TEFC motor suitable for operated on 415 V ,3 ph, 50 c/s AC supply as per TAC along with suitable size Aluminium XLPE Armoured Power Cabling, all other accessories as and cement concrete foundation as per direction of Engineer-in-charge. (Make:Kirlosker/wilo/Gunfoss/ITT/Armstrong)	Each	1.00	₹ 75,583.75	₹ 75,583.75
133	Supply,Installation,Testing & Commissioning of 'C' Class heavy duty MS pipe (as per IS 1239 upto 150 mm NB and IS 3589 for above 150 mm 6mm thick) with flanges and fitting such as bends, tees, reducers, rubber insertions and galvanized nuts and bolts of following size on surface along wall / shaft with MS bracket, suspended from ceiling/ beam with suspenders duly painted with two coats of primer and finished with enamel paint of approved colour laid through pipe or in trench after wrapping with hassen cloth after applying coal tar primer as required as per direction of Engineer-in- charge. <b>MAKE:JINDAL/TATA/JINDAL HISSAR</b>				₹ 0.00
c	100mm NB	Mtr	140.00	₹ 1,385.00	₹ 1,93,900.00
d	80mm NB	Mtr	80.00	₹ 1,071.00	₹ 85,680.00
g	25mm NB	Mtr	15.00	₹ 483.00	₹ 7,245.00
134	Providing, fixing, testing and commissioning of following size manually operated hand lever type cast iron double flanged slim seal wafer type Butterfly valves with EPDM iron disc as per IS-13095 having pressure rating PN -1.60 including fixing the same with supply of required jointing materials like rubber insertion, MS nuts & bolts, paint etc. and testing the joints with required water pressure etc. all complete as per specification & direction of E.I.C. <b>MAKE:Zoloto/Audco/Equivalent make</b>				
b	100mm NB	Nos	2.00	₹ 6,833.00	₹ 13,666.00
135	Supply,Installation,Testing & Commissioning of Stainless steel Hydrant Valve / Landing valve, of 63 mm NB size, type-A, single headed , oblique type, as per IS :5290/93 and as per direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 6,871.00	₹ 27,484.00
136	Supply,Installation,Testing & Commissioning of SS short branch pipe with 63 mm male inlet and 19 mm outlet nozzle, as per IS:903 and as per direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 1,481.00	₹ 5,924.00
137	Supply,Installation,Testing & Commissioning of 63 mm NB and 15meter long RRL Fire Hose fitted with 63mm instantaneous stainless steel male & female SS coupling, complete by GI wire binding for Internal Hydrant as per direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 3,948.00	₹ 15,792.00
138	Providing supply & fixing of MS Hose Box for of suitable size(750X600X250mm) to accomodate 2 nos. of 15/ 1 no of 30 mtr long fire hose and a branch pipe, wall mounted type as per direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 5,981.00	₹ 23,924.00
139	Supply,Installation,Testing & Commissioning of Swinging pattern wall fixing first aid hose reel made from MS sheet and waterways and moving parts with rubber hose of 30 mm dia. and 30 mtrs. long with ABS(Plastic) shut-off nozzle as per IS: 444/IS: 12585 Type-I., complete with all accessories as per direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 7,871.00	₹ 31,484.00

BOQ FOR CONSTRUCTION OF HOSTEL BUILDING TO PROMOTE LITERACY AMONG TRIBAL STUDENTS AT VANVASI KALYAN ASHRAM, RAIGADA, ODISHA					
Sl- No	Item of Work	Unit	QNTY	Rate	Amount
140	Providing, fitting and fixing of C.I. 25 MM single air relief valve with stop cock confirming to IS:14845/2000 with ISI mark for water works purpose including fixing the same with hydrant riser including testing & commissioning the system etc. all complete as per approved specification & direction of Engineer-in-charge. <b>MAKE: OMEX/ NEWAGE / MINIMAX / KARTAR</b>	Nos	4.00	₹ 16,157.00	₹ 64,628.00
141	Supplying and fixing 4 Way FBC of CI body with 2 No. Gun Metal male instantaneous inlet couplings complete with cap and chain as required. For 100 mm dia M.S. Pipe connection conforming to IS : 904 as required With brick platform & duly painted with Post office red externally and white internally with synthetic enamel paint complete in all respect, for external hydrant, as required.	Nos	2.00	₹ 12,475.00	₹ 24,950.00
142	<b>FIRE EXTINGUISHER SYSTEM</b>				
a	Portable Fire Extinguisher System Supplying, installation, testing and commissioning of CO2 type Fire Extinguisher 4.5 kg capacity confirming to IS: 2878 made from ISI marked seamless cylinder confirming to IS: 7285, fitted with ISI marked controlled valve confirming to IS: 3224, high pressure 1mtr discharge hose & horn complete with initial gas charged with carrying handle & wall mounting bracket . <b>(Make: superimax/Cese fire/Minimax)</b>	Nos	2.00	₹ 10,426.00	₹ 20,852.00
b	Supplying, installation, testing and commissioning of ABC type fire extinguishers of 6 kg capacity including cost of all material & labour etc complete. <b>(Make: superimax/Cese fire/Minimax)</b>	Nos	4.00	₹ 4,446.00	₹ 17,784.00
c	Supplying, installation, testing and commissioning of Mechanical Foam type 9 litre capacity Fire Extinguisher, ISI marked, IS: 10204, containing 540 ml AFFF liquid ISI marked, IS: 4989 Part II and a polyurethane coated CO2 Gas Cartridge, ISI marked, IS: 4947 complete with gunmetal union cap, nylon hose with plastic foam making branch and wall mounting bracket. <b>(Make: superimax/Cese fire/Minimax)</b>	Nos	1.00	₹ 4,663.00	₹ 4,663.00
d	Fire buckets ( WITHOUT SAND) round bottom type enamel painted, white inside & Red out side and Letter "FIRE" in black out side and handle with mounting bracket.	Nos	2.00	₹ 1,533.00	₹ 3,066.00
e	First Aid Box.	Set.	1.00	₹ 750.00	₹ 750.00
f	Shock Treatment Chart (Odia / Hindi & English).	Set	1.00	₹ 525.00	₹ 525.00
g	8 mm thick Rubber Mat.	Sqmtr.	8.00	₹ 770.00	₹ 6,160.00
h	Danger Board.	Set	1.00	₹ 120.00	₹ 120.00
	<b>TOTAL (excluding GST)</b>				<b>₹ 3,27,14,161.00</b>