DETAILS COST ESTIMATE FOR CONSTRUCTION OF PROPOSED TWO STORIED EDUCATIONAL BUILDING, BOUNDARY WALL, STRONG ROOM, PLUMBING AND ELECTRIFICATION WORK OF STRATOSPHERIC BALLOON FACILITY OF INDIAN CENTER FOR SPACE PHYSICS AT P.S. RAJNAGAR, MOUZA- CHANDRAPUR, J.L.NO -90, DRISTRICT:- BIRBHUM

A. COST ESTIMATE FOR CONSTRUCTION OF PROPOSED EDUCATIONAL BUILDING, STRONG ROOM, BOUNDARY WALL, ETC

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
1	Surface Dressing of the entire area of land in any kind of soil transfer leveling etc including removing vegetation inequalities, disposal of the rubbish as per instructions.	201.000	Dec		
2	Infrastructure for labour hutment, latrine, (6.5ft X 4.5ft) security room, temporary electrical metering place as required with adequate numbers of welding point, site halogen, room light, power points etc.	1.000	Lot		
3	Identification of real boundary with servair and as per mouza maps before starting boundary wall.	1.000	Lot		
4	Earth boring (5") for submerciable pump (minimum 280ft-300ft depending on the water layer) including labour charges, supply and installation of 5"pipes, 3" pipes, reducer , sockets, nipples, column pipes, 2HP submerciable pump, cable etc total complete.	1.000	Lot		
5	Construction of 5 mtr entrance gate with grill, sheets, roller etc as required and name plate at the right side of wall with minimum front size 6 inch (Steel) total complete as per instruction	1.000	Lot		
6	Full termite controll of ground floor of the main building as required and as per instruction	1.000	Lot		
7	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
	for column footing (52 nos) , guard wall ,strong room (4 nos), Boundery Wall (186 Nos.)				
	(a) Depth of excavation not exceeding 1,500 mm.	626.760	Cum.		
8	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				
	With earth obtained from excavation of foundation				
	Total quantity of excavation X 1/5	125.352	Cum.		
9	Filling in foundation or plinth by silver sand in layers as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand.				
	by fine sand				
	a) Under the Column, Floor Area and tie-beam, Boundery wall	240.432	Cum.		
10	Cement concrete with graded stone ballast (40 mm size excluding shuttering) In ground floor PCC				
	(a) 1:3:6 proportion				

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	for Column, Floor, Guard all under the Tiebeam, Strong room, Boundery Wall	109.824	Cum.		
11	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. SAIL/ TATA/RINL/ Similar				
	(i) Tor steel/Mild Steel				
	(A) For works in foundation and upto top of the tie beam level educational Building, strong room, boundary wall	19.474	M.T		
	(B) For work in Ground floor	17.797	M.T		
	(C) For Work in First Floor	13.094	M.T		
	(D) For Work in Stair Room	0.882	M.T		
12	Controlled Cement concrete with well graded stone chips (20 mm nominal size) excluding shuttering and reinforcement with complete design of concrete as per IS : 456 and relevant special publications, submission of job mix formula after preliminary mix design after esting of concrete cubes as per direction of Engineer-in charge. Consumption of cement will not be less than 300 Kg of cement with Super plasticiser per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix foumula. In ground floor and foundation.[using concrete mixture] M 25 Grade				
	(A) For works in foundation and upto top of the tie beam level for Main Building, Strong Room, Boundary wall	141.758	Cu.M		
	(B) For work in Ground floor Main Building, Strong Room concrete wall, Boundary wall	129.548	Cu.M		
	(C) For Work in First Floor Main Building	96.548	Cu.M		
	(D) For Work in Stair Room Main Building and over head water tank (10000Ltr)	8.503	Cu.M		
13	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works				
	Steel shuttering or 9 to 12 mm thick approved quality ply board shuttering in any concrete work.				
	(A) For works in foundation and upto top of the tie beam level (f) 25 mm to 30 mm shuttering without staging in foundation for Main Building, Strong Room, Boundary wall	636.510	Sq.m		
	(B) For work in Ground floor Main Building, Strong Room, Boundary wall	1319.228	Sq.m		
	(C) For Work in First Floor Main Building	845.228	Sq.m		

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	(D) For Work in Stair Room Main Building	59.348	Sq.m		
14	1st class brickwork of width 200 mm. with non-modular bricks in cement and sand mortar (1:6)				
	(A) In superstructure, Ground floor, Main Building, Strong Room if required, Boundary wall	62.324	Cu.M.		
	(B) In superstructure, First floor	62.684	Cu.M.		
	(C) For Work in Stair Room	10.428	Cu.M.		
	125 mm. thick brick work with 1st class bricks in cement mortar (1:4)				
	(A) In superstructure, Ground floor	426.484	Sq.m		
	(B) In superstructure, First floor	325.069	Sq.m		
	(C) For Work in Stair Room	275.205	Sq.m		
	(D) Boundery Wall	1230.000	Sq.m		
	(E) Parapet Wall	134.100	Sq.m		
15	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).				
	With 1:6 cement mortar				
	20 mm thick plaster (Inside Wall)				
	(A) In superstructure, Ground floor	1383.015	Sq.M		
	(B) In superstructure, First floor	1153.350	Sq.M		
	(C) For Work in Stair Room	58.200	Sq.M		
	(D) For Strong room	46.950	Sq.M		
	(E) Boundery Wall	495.420	Sq.M		
	15 mm thick plaster (outside Wall)				
	(A) In superstructure, Ground floor	403.470	Sq.M		
	(B) In superstructure, First floor	404.370	Sq.M		
	(C) For Work in Stair Room	58.200	Sq.M		
	(D) For Strong room	46.950	Sq.M		
	(E) Boundery Wall both side	2460.000	Sq.M		
	(F) For Parapet	268.200	Sq.M		
	1:4 cement mortar and 10 mm thick plaster (Cilling)				
	(A) In superstructure, Ground floor	382.963	Sq.M		
	(B) In superstructure, First floor	382.963	Sq.M		
	(C) For Work in Stair Room	18.838	Sq.M		
16	Rendering the Surface of walls and ceiling with White Cement base WATER PROOF wall putty of approved make & brand.(1.5 mm thick)				
	Add extra for each additional floor over the rate for ground floor for the above item				
	(A) In superstructure, Ground floor	1757.728	Sq.M		

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	(B) In superstructure, First floor	1528.063	Sq.M		
	(C) For Work in Stair Room	93.538	Sq.M		
17	**Wood Work.**				
	Wood work in door and window frame fitted and fixed in position complete including a protective coat of painting at the contact surface of the frame exluding cost of concrete, Iron Butt Hinges and M.S clamps. (The quantum should be correted upto three decimals) **Sal :Local**				
	Note: Incloude Extra for Lifting Charges for each additional floor,				
	(A) In superstructure, Ground floor	0.770	Cu.M		
	(B) In superstructure, First floor	0.568	Cu.M		
	(C) For Work in Stair Room	0.082	Cu.M		
18	Supplying solid flush type doors of deluxe decorative (both side) quality,conforming to I:S 2202 timber frame consisting of top and bottom rail and side styles of well seasoned timber 65mm wide each and the entire frame fitted with 27.5mm wide battens places both ways in order to made the door of solid core and internal lipping with teak, mahogony or rose wood approved decorative veneers using phenol formaldehyde as glue etc. complete, including fitting, fixing the shutters in position but excluding the cost of hinges and other fittings.				
	35mm thick shutters (single leaf)				
	(A) In superstructure, Ground floor	34.800	Sq.M		
	(B) In superstructure, First floor	25.600	Sq.M		
	(C) For Work in Stair Room	3.600	Sq.M		
19	Supplying, Fitting & Fixing 30 mm thick thick both side prelaminated Double Leaf Factory made solid Panel PVC Door Shutter . complete excluding all necessary hardwares as per direction of Engineer-in-Charge.				
	(A) In superstructure, Ground floor	22.575	Sq.M		
	(B) In superstructure, First floor	16.125	Sq.M		
20	**AL Windows**				
	Supplying profiles of required section made of Aluminium Alloy Extrusions conforming to IS: 732-1983 and IS: 1285-1975; Annodized (with required film thickness and specified colour / natural) matt finished conforming to IS: 1868-1983 for fabrication of composit door, sliding & casement windows, partitions, formed of basic sections of any ISI embossed / certified make and brand as per direction of Engineer - In-Charge. (Payment will be made on finished length of the work).				
	In 10-12 Micron thickness Annodizing film				
	Natural white				
	Ground Floor				
	a) 3- track sliding window (W2)				
	i) Bottom frame	42.000	Metre		

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	ii) Top and side frame.	126.000	Metre		
	b) 2- track sliding window (W3)				
	i) Bottom frame	9.600	Metre		
	ii) Top and side frame.	28.800	Metre		
	c) Louvered window (W6)				
	i) Top, bottom and side member.	29.400	Metre		
	ii) Louvered Section.	14.000	Metre		
	iii) Cleat angle (Non-annodized).	14.000	Metre		
	First Floor				
	a) 3- track sliding window (W2)				
	i) Bottom frame	46.500	Metre		
	ii) Top and side frame.	120.900	Metre		
	b) 2- track sliding window (W3)				
	i) Bottom frame	7.200	Metre		
	ii) Top and side frame.	21.600	Metre		
	c) Louvered window (W6)				
	i) Top, bottom and side member.	16.800	Metre		
	ii) Louvered Section.	9.600	Metre		
	iii) Cleat angle (Non-annodized).	8.000	Metre		
	Stair Room				
	a) 3- track sliding window (W2)				
	i) Bottom frame	1.500	Metre		
	ii) Top and side frame.	3.900	Metre		
21	Supplying bubble free float glass of approved make and brand conforming to IS: 2835-1987.				
	6 mm thick coloured / tinted / smoke glass.				
	Ground Floor	65.700	Sq.M		
	First Floor	66.600	Sq.M		
	Sair Room	1.800	Sq.M		
22	Supplying EPDM gusket of approved make and brand as per direction of Engineer in charge.				
	i) For sliding windows				
	Ground Floor				
	a) ' T' shaped EPDM gasket for frames.	120.000	Metre		
	b) 'U' shaped EPDM gasket for frames.	120.000	Metre		
	First Floor				
	a) ' T' shaped EPDM gasket for frames.	90.000	Metre		
	b) 'U' shaped EPDM gasket for frames.	90.000	Metre		
	Stair Room				
	a) ' T' shaped EPDM gasket for frames.	10.000	Metre		
	b) 'U' shaped EPDM gasket for frames.	10.000	Metre		
23	Supplying PVC rollers for sliding windows as per direction of Engineer in charge.				

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SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	Ground Floor	216.000	Each		
	First Floor	222.000	Each		
	Stair Room	6.000	Each		
24	Supplying maruti lock (100mm)				
	Ground Floor	72.000	Pair		
	First Floor	74.000	Pair		
	Stair Room	2.000	Pair		
25	Labour charge for fabrication and installation of composite door, window , partitions made from annodized extruded alloy aluminium sections for the following units:-				
	Glazed aluminium sliding windows made of extruded and annodized alloy aluminium sectios, fabrications, including cutting to proper shape and size, drilling and aligning of window shutter frame fitted with in built locking arrangements, sliding rollers and other necessary fittings, fixture, adhesives and joineries along with extruded neoprine or EPDM gasketing in between window frame and masonry work (walls, column, beam.lintels etc.) as well as between glass and shutter frame for fixing glass and Poly Shulphate sealant and in between shutter and window frame where necessary including cutting to requisite size and fixing glass as per drawing, specification and direction of EIC. The rate includes the hire charge of all tools and plants, including all incidental charges, adhesive, joineries such as screw, cleate angle etc. but excluded the cost of extruded aluminium sections, glass, neoprene / EPDM gasketing, locking arrangement and rollers.				
	Add extra for each Addl. Floor over the rate				
	i) Upto 4th Floor Rs.12.00 per Sq.m				
	Ground Floor				
	a) 3 track sliding window (W2)	50.400	Sq.M		
	b) 2 track sliding window (W3)	11.520	Sq.M		
	c) Louvered window (W6)	5.670	Sq.M		
	First Floor				
	a) 3 track sliding window (W2)	55.800	Sq.M		
	b) 2 track sliding window (W3)	8.640	Sq.M		
	c) Louvered window (W6)	3.240	Sq.M		
	Stair Room				
	a) 3 track sliding window.	1.800	Sq.M		
26	**STEEL WORKS, GRILLS, GATES ETC.**				
	M.S.or W.I. Ornamental grill of approved design joints continuously welded with M.S, W.I. Flats and bars of windows, railing etc. fitted and fixed with necessary screws and lugs in ground floor.				
	(Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. floor above 4th floor)				

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	(i) Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.				
	Ground Floor	16.050	Qntl		
	First Floor	14.189	Qntl		
	Stair Room	0.540	Qntl		
27	Collapsible gate with 40mm x 40mm x 6mm Tee as top and bottom guide rail, 20mm x 10mm x 2mm vertical channels 100mm apart in fully stretched position 20mm x 5mm M.S. flats as collapsible bracings properly rivetted and washered including 38mm steel rollers including locking arrangements, fitted and fixed in position with lugs set in cement concrete and including cutting necessary holes, chasing etc. in walls, floors etc. and making good damages complete.				
	(Add extra @ 1% for each addl. floor upto 4th floor and @ 1.25% for each addl. floor above 4th floor)				
	(Payment will be made on the area of the gate covered by two guard rails and two extreme channels)				
	Ground Floor	9.450	Sq.m.		
	Sheet Gate at Roof and Strong Room	3.500	Sq.m.		
28	**WHITE WASH, COLOUR WASH, DISTEMPER**				
	Cement washing including cleaning and smoothening surface thoroughly (cement to be used @15 kg./100 sq.m. of surface for one coat and @25 kg./100 sq.m of surface for two coats):				
	Ground Floor	403.470	Sq.M		
	First Floor	404.370	Sq.M		
	Stair Room	58.200	Sq.M		
	Boundary Wall	2460.000	Sq.M		
	Parapet Wall	268.200	Sq.M		
	Strong Room	46.950	Sq.M		
29	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-Charge to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer.				
	Ground Floor	403.470	Sq.M		
	First Floor	404.370	Sq.M		
	Stair Room	58.200	Sq.M		
	Boundary Wall	2460.000	Sq.M		
	Parapet Wall	268.200	Sq.M		
	Strong Room	46.950	Sq.M		

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
30	Acrylic Distemper to interior wall, ceiling with a coat of solvent based interior grade acrylic primer (as per manufacturer's specification) including cleaning and smoothning of surface. Two Coats				
	In Ground Floor	1757.728	Sq.M		
	In First Floor	1528.063	Sq.M		
	In Stair Room	93.538	Sq.M		
31	Rendering the surface of wall and ceiling whith white cement based water proof wall putty of approved make and brand (1.50mm thick)				
	Standard Quality in Ground Floor	1757.728	Sq.M		
	Standard Quality in First Floor	1528.063	Sq.M		
	Standard Quality in Stair Room	93.538	Sq.M		
32	priming one coat on timber, plastered or on steel o other material surface with synthetic enamel / oil bound primer of approved quality including smoothening surface by sand paper etc.				
	Ground Floor	187.370	Sq.M		
	First Floor	152.220	Sq.M		
	Stair Room and strong Room	13.140	Sq.M		
33	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary : Two coats (white in shade)				
	On timber or plastered surface :				
	With super gloss (hi-gloss) -Two coats				
	Ground Floor	187.370	Sq.M		
	First Floor	152.220	Sq.M		
	Stair Room and strong Room	13.140	Sq.M		
34	**Flooring**				

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
A	Supplying and laying true to line and level vitrified tiles of approved brand (size not less than 600 mm X 600 mm X 10 mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91Kg./sqM or using polymerised adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 Kg of cement per sqM below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout materials of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials, labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-Charge. (White cement, synthetic adhesive and grout material to be supplied by the contractor)				
	(I) With application slurry @1.75 kg/ Sq.m, 20 mm sand cement mortar (1:4) & 2 mm thick cement slurry at back side of tiles, 0.2 kg/ Sq.m white cement for joint filling with pigment.				
	Light Colour at Ground Floor	678.000	Sq. M		
	Light Colour at First Floor	678.000	Sq. M		
	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete: 15-18 mm thick crazy marble stone white, black or as specified				
	Stair and landing				
	In Ground Floor	29.288	Sqm.		
	In First Floor	29.288	Sqm.		
~~29~~ B	**Toilets:-** Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the ack of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if ecessary or by synthetic adhesive & grout materials etc.				
	(A) Floor				

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SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. Area of each tiles up to 0.09 Sqm				
	Coloured decorative				
	In Ground Floor	26.520	Sq. M		
	In First Floor	20.400	Sq. M		
	(B) Wall				
	With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. Area of each tiles up to 0.09 Sqm				
	Coloured decorative				
	In Ground Floor	158.340	Sq. M		
	In First Floor	121.800	Sq. M		
35	Supplying, fitting and fixing Stainless Steel railing consist of 38mm dia and 900mm height vertical balustrade at every two alternative steps, 50mm dia top rail, 3 (three) nos 19mm dia horizontal Strainless steel pipe and base/cover plate with Strainless Steel GRADE 304 containing 7.5% nickle (Interior Grade) Brushed/Mat finish, complete as per direction of the Engineer-in charge. Weight of Strainless Steel railing per metre 6.5 Kg (approx)				
	In Ground Floor	7.000	mtr		
	In First Floor	7.000	mtr		
	up to roof	7.000	mtr		
36	Rainforcement roof and IPS of the main building	1.000	Lot		
	Plumbing Work				

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
37	Construction of septic tank of as per approved drawing with 1st class brick work in cement mortar (1:4) including two 560 mm dia. R.C.C. manhole cover (heavy type) of approved make supplied, fitted and fixed in the 100mm thick R.C.C (1:1.5:3) top slab with necessary fittings, 20mm thick cement plaster (4 : 1) with neat cement finish to the internal surfaces and 15 mm thick cement plaster (4 : 1) to outside wall upto 200 mm below G.L floor finished with 25 mm thick grey artificial stone over 100 mm thick R.C.C (1:1.5:3) bottom slab including supplying, fitting and fixing all necessary specials, fittings, S.W. tees, C.I. foot rest etc. including excavation earth in all sorts of soil, filling up the chamber with clear water and including constructing attached inspection pit as per approved drawing and connecting all necessary pipes, joints etc. with internal plaster work and artificial stone flooring is to be done with admixture of water proofing compound @ 0.5% by weight of cement with all costs of labour and materials. Note:- (i) Finished level of Septic Tank should be 400 mm. from Ground Level. (ii) Height of 50 mm. Ventilation pipe &Mosquito proof mesh, should be follwed as per IS:2470. for 50 users	1.000	Lot		
38	Supply, Installation, testing commissioning of conceal plumbing work inside the building and outside inlet and outlate plumbing work including standerd quality comode, tap, basine, shower mixure, flush tank, urinal basin, sink, stand basin etc, provision for centralised solar geyser with tank connection, submerciable pump connection etc as require and as per instruction of site engineer				
	Each bothroom consist of conceal stop cock provission				
	WC	22.000	Nos.		
	Urinal	3.000	Nos.		
	Kitchen	1.000	Nos.		
39	Outside drainage system including supply and labour charges with adiquate nos. of drainage pit, pipes, sockets etc as complete and as per instruction of site engineer	1.000	Lot		
40	Supply installation of solar geyser at rooftop of the building (500Ltr)	1.000	Lot		
	Electrical Work				
	Building WIRING				
41	Supply, installation, commissioning, testing for electrification of entire building including PVC pipe laying in roof, conceal wiring through roof and wall, light point and fan point, power point, AC point wiring, Telephone and LAN wiring, with main electrical panel, Floor DB, switch board, switchs, sockets, AC starter, wire, cabling etc as required and as per SLD and drawing and instruction of site engineer				
	a) Light point wiring, each controlled by one switch (maxm. Lg of point - 5 mt.)				

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SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
	b) light point wiring of group of light points controlled by one switch (maxm. Lg of points - 5 mt)				
	c) Secondary (adjacent/subsequent) light point wiring of group of light points (maxm. Lg of point - 5 mt)				
	d) Exhaust fan point, each controlled by one switch.				
	e) Ceiling fan points each controlled by one switch with mounting of modular type electronic fan regulator.				
	f) . 5/15 Amp power pin combination socket outlet and switch point mounted on switch board itself.				
	g) 5 Amp. 5 pin combination socket outlet and switch point mounted in separate box				
	h) Modular type Switch board, Cover plates, Switchs,sockets, Fan regulator etc as per Requirements and as per conceal work				
	i) sub main wiring from SLDB to switch board with 2nos x2.5 Sqmm & 1 X 1 Sqmm. Pvc insulated copper flexible wire through existing PVC conduit conceled in wall including repeir of damage civil work if required				
	j) Point wiring from switch board to different light, Fan, 5A sockets & Exhust Fan with 2nos x1.5 Sqmm & 1no. X 1 Sqmm. Pvc insulated copper flexible wire through Existing PVC conduit conceled in wall including repeir of damage civil work if required				
	k) Power point wiring from SPDB/JB's to Power sockets with 2nos x2.5 Sqmm & 1 X 1.5 Sqmm. Pvc insulated copper flexible wire through Existing PVC conduit conceled in wall including repeir of damage civil work if Required				
	l) AC point wiring from SPDB to Power socker with 2nos x4 Sqmm & 1 X 1.5 Sqmm. Pvc insulated copper flexible wire through Existing PVC conduit conceled in wall including repeir of damage civil work if required	1.000	Lot		
42	**FLD/B's**- Supply and installation of Wall mounting type TPN MCB D/B having 32A TPN MCB as incomer and 18 nos. 10A SP MCB as outgoing. (Only MCB's)	2.000	Nos.		
43	**FPDB's** - Supply and installation of Wall mounting type 4 way TPN MCB D/B having 62A TPN MCB as incomer and 18 nos. 25A SPN MCB as outgoing .(Only MCB's)	2.000	Nos.		
44	**D.G Set:-**				
	Supplying, installation, testing and commissioning of AQUASTIC ENCLOSER type Diesel Generating Set of capacity 10 KVA . 415 Volts, 3- phase, 4-wire, with batteries, battery charger, Engine & AMF panel, Dieseltank, silencer etc, including supply & installation of exhaust piping etc.	1.000	Set		
	Earthing				
45	**G.I PIPE EARTHING:-** Supply and installation of earthing station with 50 mm dia galvanized iron pipe 3.64 mm thick x 3 metres long, 13 mm dia 100 mm long G.I. Double nuts & washers, driven to an average depth of 3.15 mtrs. below the ground level and restoring the surface duly rammed. Construction of inspection pit for earthing station with 250 mm thick brick work over 100 mm thick PCC including all inside and outside plastered, inside and top neat cemented, heavy duty manhole with cover complete with supply of all materials (Cement sand mortar 1.6 and PCC with cement, stone & sand 1:3:6)	8	Nos.		
	Air terminal	8	Nos.		
	Test terminals for individual earth station/earth circuits mode of 25 x 6 mm GI flat on porcelain insulators	8	Nos.		

SL.No	Desciption of items	Quantity	Unit	Unit Rate (Rs.)	Amount (Rs.)
46	25 x 3 mm GI flat earth bar for connection of different type of equipments to earth grid and interconnection of lightning arrestors & two nos. droppers from roof to earth stations.	30	mtr		
47	25 x 5 mm G.I. Flat for connection transformer neutral & body of H.T. & L.T. equipments	30	mtr		
48	2 nos. 10SWG Cu Earthing wire for Floor DB's	100	mtr		
49	**Main PANEL:-** Free floor mounting dead front compartmentalized type panel fabricated from 14 SWG CRCA sheet for the enclosure & 16G SWG CRCA sheet for panel door and other barriers and with powder coated paint finish of light gray as per IS:631 after proper treatment through 7 tank pickling for antirust and surface preparation. The panel will be fitted with the following equipments and wired for necessary protection & indicating equipments as detailed below :				
	INCOMER :-				
	1 no. 125A MCCB and 1 no. 125A Auto Change Over for DG incomer & WBSC POWER				
	OUT GOING:-				
	4 Nos. 63A 4P MCB's				
	4 Nos. 32A 4P MCB's				
	4 Nos. 32A 2P MCB's				
	Power Cables				
50	Supply & laying of 1100V grade PVC insulated, PVC sheathed armoured / unarmoured cable with cable clamps, cable tie, termination etc as required and as follows:				
	1.1 KV grade4C x 50 sq. mm PVCA Al. cable	150	mtr.		
51	20W LED Tube Light	100.000	Nos.		
52	48 inch Ceiling Fan	50.000	Nos.		
53	6" Exhaust Fan	25.000	Nos.		
54	Solar Panel with 25W light pole battery, battery cassing etc complete for boundery wall	75.000	Nos.		
	Fire system				
55	ABC type 6kg fire extinguisher	10.000	nos		
56	CO2 type 4.6 Kg fire extinguisher	3.000	Nos		
57	Fire Alarm System:- including installation, testing, commissionning of 4 zone panel, 20 nos smoke detector, 3 nos.Hooter cum speaker, 2 nos.Breaking Glass type Manual Call Point (MCP), PVC Conduit, PVC flexible Wire & PVC Accessories (Saddle, Elbow, Tee etc.), as required and as per instruction of site engineer	1.000	Lot		
	Sub Total				₹ -
			GST 18%		₹ -
			Total=>		₹ -