

CBRSETI KARAIKUDI - COMPOUND WALL, BATH ROOMS & TOILETS CONSTRUCTION, COMPREHENSIVE REPAIRS, ADDITIONS, ALTERATIONS, PAINTING & MISCELLANEOUS WORKS.							
SL.NO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
A	COMPOUND WALL CONSTRUCTION						
	COMPOUND WALL WITH PRECAST ITEMS as mentioned in (a) & (b) below						
1	PRECAST CONCRETE POLES : Supply, erecting and fixing in position 2 metres height H type Pre-Cast RCC Poles/Posts with required main reinforcement & stirrups having grooves on sides for pre cast slabs insertion. The post shall be of minimum 150mm x150 mm Size and fixed at 2 metres regular intervals. Each pole shall be fixed in the existing ground by making digging pits of 18 inches x 18 inches x 24 inches deep with necessary excavation in all types of soils inclding hard rock, providing base concrete and filling conrete of M20 grade upto 6 inches height above the natural ground level , curing the concrete etc all complete.The exposed surfaces shall be painted with a coat of wall primer and 2 coats of exterior grade plastic cmulsion paint of APEX quality of Asian Paints Make or its equivalent. Payment is per running meter of poles fixed with conreting including the embedded portion length.	1200.00	RFT				
2	PRECAST CONCRETE SLABS 50 MM THICK :Providing and fixing in position1950 mm (L) x 300 mm (W) x 50 mm (T) size pre-cast reinforced concrete slabs in 5 layers for a height of 5 feet one above the other, by caerfully inserting into the grooves of the Precast concrete poles/ Posts including the cost of materials and labour charges etc, complete. The exposed surfaces shall be painted with a coat of wall primer and 2 coats of exterior grade plastic cmulsion paint of APEX quality of Asian Paints Make or its equivalent. The rate is per square metre of the precast slabs provided and fixed, all complete.	Internal 5600.00	SQ.FT				

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3	Fabricating & casting 2 vertical RCC columns of 15"x15" size with minimum 6 ft height above ground level and firmly fixed below the ground using 3 ft x 3 ft x 10 inches thick footing including earth excavation, M20 concrete, reinforcement steel, plastering the columns surfaces above ground level. The item shall include providing reinforcement steel footing mat made of 10mm dia rods at 6" center to center in both directions with ends bent to the thickness of the footings & columns steel made of 4 nos 10 mm dia rods with 8mm dia stirrups at 6" center to center. The item shall include fixing MS plates at required location for supporting the MS gates heavy hinges.	4.00	NOS				
4	Providing & fixing Entrance M S gate of 20 ft long by 5 ft height strictly as per below specifications with necessary welding, rivetting in built up sections, trusses and framed work, including cutting, hoisting, fixing in position all complete, all as per the directions of Engineer In Charge. The gate shall be made into 4 foldable independent units but each 2 gates inter-connected with heavy duty hinges and should be in a position to swing/ open inside or outside area. In the closed position, the gates at the center shall have locking arrangement. Each gate shall have vertical tower bolt to be inserted into the ground level concrete. Each gate's around frame shall be made of 80mm x 40mm x 2.6mm thickness with Unit weight 4.55Kg/Meter. There shall be one intermediate horizontal & vertical members shall be spaced at 6 inches center to center for all gates. These shall be made of mild steel (MS) rectangular tubular section of 40mm x 25mm size with 2.00 mm thickness and Unit weight 1.83Kg/M. The gates shall be fixed to the RCC pillars using MS fabrication. The entire gates surfaces shall be finished with a coat of steel primer and 2 coats of enamel paint of approved colour and brand. The welding joints, gaps, if any shall be finished with metal paste before painting.	100.00	SQ.FT				
5	Carefully removing & re-fixing the existing MS gate of 5 ft high x 20 ft long approximately, fixing in front of the Dormitory block with necessary cutting and re-welding works.	1.00	LOT				

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6	BUY BACK OF BARBED FENCE AND STONE POLES: Carefully rmeove the existing barbed fence and the stone poles existing around the boundary of the Institute's property. The bidder needs to quote their highest rate for buying back these stone poles and barbed fence. The quoted amount is payable to the CBCRD Trust. No extra charge will be paid for removing the fence and stone poles. Approximate number of stone poles is	1.00	LOT				
	SUB TOTAL OF COMPOUND WALL WORKS						
B	EXISTING BATH ROOMS, TOILET BLOCK COMPREHENSIVE REPAIRS, CONSTRUCTION OF BATH ROOMS, TOILETS, TWO GUEST FACULTY ROOMS WITH ATTACHED BATH ROOMS IN RSETI BLOCK.						
1a	PREPARATION OF THE FLOOR SURFACE:: Dismantling the mosaic/ Athangudi floor tiles and underneath mortar carefully till the PCC and clearing the debris from the site.	550.00	SFT				
1b	Carefully removing the existing wooden double door facing the outside corridor area (approximate size 5 ft x 7 ft) and stacking at the site as per the instructions of the Director/ Engineer incharge.	1.00	LOT				
1c	Carefully removing the existing wooden double door of the common toilets in ground floor (approximate size 5 ft x 7 ft) and refixing in the main lounge portion using necessary concrete grouting, new 4 nos holdfasts, all as per the instructions of the Director/ Engineer incharge	2.00	LOT				
1d	Carefully dismantling/ break opening the 9" thick brick wall including both side plaster for creating the entrance for bath/toilet areas at ground & first floor levels & clearing the debris from the work site. Each opening size would be 3 ft x 7 ft height. The payable area is volume created by careful dismantling	150.00	CFT				
1e	Carefully remove the existing windows and stack the same at the site as per the directions of the Engineer In charge.	100.00	SFT				
1f	Carefully removing the old PVC/ fibre doors with shutters and stacking at the specified location for disposal or for necessary repairs.	9.00	NOS				

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2	WATER PROOFING OF FLOOR SURFACES (Where bath rooms & toilets are prosued): Providing screed concrete for an average thickness of 50 mm on the floor area and providing water proof plaster to a thickness of 20 mm to 25 mm admixed with Conplast X421 IC (Fosroc) or its equivalent @ 130 ml per bag of cement on the floor & the junction area with the alround masonry walls in bath rooms and toilets areas.	950.00	SFT				
3	Carefully removing the existing wash basin, European commodes, connection pipes, clamps, pillar cocks, angle cocks, flush tanks and other usable accessories from the wash area cluster to facilitate comprehensive repairs to sunken areas of entire wash area whcih includes bath rooms, water clothes, wash basin areas in ladies & gents dormitory attached wash room blocks.	1.00	JOB				
4	DIGGING THE SUNKEN AREA: Carefully dismantle the floor tiles and dig the sunken area including top concrete, filler material till the bottom of the sunken slab and disposing the debris to municipal dumping ground and carefully dis-assemble the water and sanitary pipes to facilitate sunken slab treatment. The area to be dismantled is 400 square feet in wash area cluster attached to ladies dormitory (10 ft length by 12 ft width) and Gents Dormitory wash area (16ft x 18ft) approximately. The filler material shall be taken to terrace for sun drying and the same shall be reused for filling the treated sunken area. The other waste debris shall be cleared from the site.	1.00	JOB				
5	SUNKEN SLAB TREATMENT						
	Providing and laying comprehensive water proofing treatment to badly affected toilet / bath room sunken slabs as per the following specification. The treatment shall be guaranteed for atleast 5 years period.						
	a) Remove the floor tiles and the filler material like cinder and stacking reusable materials & disposing the unusable materials and clearing the sunken portion's floor & vertical surfaces from all debris, unwanted material, without damaging the water supply, drainage and soil pipes, so as to enable the sunken portion to receive the new treatment						

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	b) Providing Nitobond SBR (Fosroc) or its equivalent modified mortar in the annular space, after fixing necessary sanitary/water PVC pipes in the wall and curing the same so as to seal the pipe & wall intersections. Providing Nitobond SBR (Fosroc) or its equivalent modified mortar in the right angle joint of slab side walls and curing it normally.						
	c) Providing CM 1:3 water proofing cover plaster to a thickness of 12 to 15 mm admixed with Conplast X421 IC (Fosroc) or its equivalent @ 130 ml per bag of cement on the floor & sides of the sunken portions.						
	d) Applying mix of Brush Bond RFX (Fosroc) or its equivalent to form 1mm seamless membrane in two coats on the floor and sides of the sunken portion over the plastering in (d) above and allowing normal curing.						
	e) Providing CM 1:3 water proofing cover plaster to a thickness of 12 to 15 mm over the membrane coating admixed with Conplast X421 IC (Fosroc) or its equivalent @ 130 ml per bag of cement.						
	g) Adequate slope in the floor shall be maintained using water proofing concrete. The item shall include re- connecting the sanitary & plumbing CPVC/ UPVC pipes and /or replacing the damaged pipes with new ones. Cost of newly provided pipes if any will be paid in separate items. A drain pipe of 25mm dia shall be provided at the lowest point of the sunken floor to dispose off the residual seeped water, if any.						
	f) Checking & testing the traps, joints of sanitary, water pipes inside the sunken area, for watertightness and attending to the defects including replacement of damaged pipes which will be paid separately.						
	g) providing new filler material (cinder / light weight industrial waste light) and consolidating the same to receive the top concrete layer.						
	h) Laying the 4" thick 1:2:4 concrete layer with water proof compound. The surface shall be ready to lay the floor tiles and water closet fixing.						

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	i) The payment shall be based on the SURFACE area i.e. excluding the vertical surfaces of sunken area (which will be normally concealed) of the water closet/bath room treated.	400.00	SFT				
6	Repairing the existing taps by changing the spindles of Parryware make or jaguar make and making the existing taps functional.	20.00	NOS				
7	ONE BRICK THICK MASONRY: Providing and constructing 230 mm thick brick walls in CM 1:5 (one part of Cement, five parts of River sand) using Table moulded, Chamber burnt, Stock Bricks having minimum of 35kg/cm2 compressive strength and of size 9" x 4 1/2 " x 3" including curing, scaffolding ,materials, labours, tools & plant etc. complete						
a	Ground floor	50.00	CFT				
b	First Floor	250.00	CFT				
8	HALF BRICK THICK MASONRY: Providing and constructing 110mm thick (Plus or minus 5mm) brick masonry in cement mortar 1:3 for partition walls using well burnt best quality bricks having minimum of 35kg/cm2 compressive strength including supplying and laying 1 No 6mm dia MS bars at every fourth layer including scaffolding curing cost of reinforcement etc. all complete as per specifications and drawings as directed by the Engineer in-charge.						
a	Ground floor	600.00	Sq.FT				
b	First Floor	1450.00	Sq.FT				
9	Plastering to Internal walls: Providing & applying 15 mm thick cement plaster in CM 1:4(1 part of cement: 4 parts of sand) to walls internally in single coat at all levels to correct line and level including chicken wire mesh at all joints of brick and concrete surfaces with minimum overlap of 150 mm in all directions, scaffolding, rounding off or chamfering of corners, offsets,fin/bands, projections,etc.and cleaning of surface,raking out joints, roughening of surface ,chiseling the undulated surface wherever necessary, with smooth finish with lime rendering and curing, etc.,(all materials and labour complete in all respects including all lead, lift and descent and as directed).	6000.00	Sq.FT				

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
10	Supplying, laying and fixing in position Anti-skid ceramic tiles of size minimum 1 ft x 1 ft, approved quality and colour laid using CM 1:3 - 20 mm thk and cement slurry. Including cutting the tiles to the required size with special cutter where ever necessary and pointing the joints with coloured cement using 0.40 Kg / Sqm including finishing the flooring and pointing the joints flesh with tile surface etc. complete. (Basic rate-400/sq.mtrs)	1200.00	SQ.FT				
11	Supplying & fixing Dadoing the walls with coloured glazed tiles of minimum 12"x18" size and of approved quality and colour set in CM 1 : 2 - 10 mm thk and cement slurry. And pointed with suitable cement including finishing the joint and pointing flush with walls and tile surface in all floors at the rate of 0.40 Kg /Sqm etc. complete. (Basic rate-375/sq mtrs)	3480.00	SQ.FT				
12	Supply and fixing of polished granite slab 19 mm thick (average) of approved shade/colour for flooring including fixing in position cutting, chipping the wall, masonry touch up works etc.fixed with 20mm thick cement mortar 1:3 and cement slurry, complete in all respects for all floors as directed by the Trust officials.(counter Wash Basin platform, Urinals dividers) (Granite basic rate-1100/sq.mtrs) . Necessary holes of required size at the required location for passing the fresh water pipe and waste water coupling of the wash basin to be made as per the need.	90.00	SQ.FT				
13	COUNTER TOP WASH BASINS : Providing and fixing white vitreous rectangular shaped wash basin of Hindware /Parryware/ CERA make or its equivalent product fixed with necessary adhesive as per the manufacturers recommendations with 32mm CP brass waste coupling of standard pattern, connection pipes, waste pipes inclusive. Piller tap excluded.	12.00	NOS				

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
10	INDIAN WATER CLOSET WITHOUT FLUSH TANK : Providing and fixing white vitreous Indian type WC pan of parryware make-with 100 mm P or S trap of china vitreous material with necessary civil work like cutting and making good the wall and floor surfaces wherever required, concreting the trap sides and plastering the joints. Comfort pan model or long pan pattern WC pan of required size with integrated type foot rest with flush pipe and overflow arrangement and including sealing all the pipe joints for water tightness and pointing all the floor joints with matching colour cement.	12.00	NOS				
14	EUROPEAN WATER CLOSET WITH 10 LITRE FLUSH TANK: Providing and fixing white vitreous European water closet type (EWC commode) of parryware make- with 100 mm P or S trap of china vitreous material with rag bolt fittings / CI/MS brackets, 32 mm diameter flush pipe with fittings and clamps, overflow arrangement with specials and mosquito proof couplings of approved municipal design including painting of fittings and brackets, cutting and making good the walls and floors wherever required including sealing all the pipe joints for water tightness and pointing all the floor joints with matching colour cement. The item shall include providing & fixing 10 litre capacity Flush tank of Parryware or Hindware make with necessary connecting flexible	6.00	NOS				
15	UPVC PIPES: Providing and fixing ISI make unplasticised rigid PVC pipes confirming to IS 13952, in required places at all floor levels, including the necessary specials like seal rings tees with or without inspection doors, Union, collars, bends with or without inspection door, fixing clamps etc all complete, for running sanitary waste / sewage. The item shall include necessary civil works like removing the plaster at wall junctions and replastering after repairs						
a	PVC 110 mm dia (4 kg/cm 2)	200.00	RFT				
b	PVC 75 mm dia (4 kg/cm 2)	200.00	RFT				

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16	CPVC WATER SUPPLY PIPES Providing and fixing of following diametered CLASS 1 (SDR11) having pressure rating of 22.5 kg/cm2 confirming to IS 15778 Chlorinated Poly Vinyl Chloride (CPVC) pipes complete with CPVC Specials like elbow90, elbow 45, union, cross, male adapter (brass threads), female adapter(brass threads), tank adapter, brass FPT TEE, reducer elbow90, reducer tee etc all with brass threaded ends, fixed with CPVC solvent/solution, PVC clamps, screws including machine cutting the bath room walls and making good the walls with patch plastering etc. Item to include testing the pipeline for water tightness, groove cutting/ chasing using machine inside bath/toilet/kitchen walls & packing the grooves						
a	20 mm dia	720.00	RFT				
b	25mm dia	150.00	RFT				
17	BATH ROOM FIXTURES: Providing & fixing the following Fixtures/ fittings & specials at the specified locations after removing the existing damaged, defunct ones. The old replaced fixtures shall be returned to bank with proper inventory details.						
a	Piller Cock for wash basin- 15mm nominal bore- Jaguar/ parryware make	16.00	NOS				
b	Angle Cocks- 15mm nominal bore - Jaguar / parryware make	60.00	NOS				
c	Short body bib cock- 15mm nominal bore- Jaguar/ parryware make	18.00	NOS				
d	Long body bib cock- 15mm nominal bore- Jaguar/ parryware make	18.00	NOS				
e	Push Cock for urinals- 15mm nominal bore- Jaguar/ parryware make	6.00	NOS				
f	Fresh water connection pipes 2 ft length- Kohinoor make	55.00	NOS				
g	Waste water connection pipes 1" dia flexible and extendable type.	21.00	NOS				
h	Stainless steel material towel rod having minimum 24 inches length of parry ware Make.	21.00	NOS				
i	Health faucet of Jaguar/ parryware basic cost Rs 1000/- with CP Connection pipe with 1/2" CP two way short body bibcock of Jaguar/parryware make.	6.00	NOS				
j	Wall mounted type Flush tank - 10 liters capacity fo Parryware / hindware make with necessary accessories & plumbing connections.	3.00	NOS				
k	Provding & fixing SS material wall mounted soap holder of minimum basic price of Rs 250 per piece.	21.00	NOS				

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18	Providing & fixing 6mm thick mirror with Marine grade 6mm thick plywood backing with SS clip holders and of suitable dimension as per site conditions at 4 locations just above wash basin areas. Rate is per sft of mirror provided and fixed with necessary hook, non-rust SS screws etc.	54.00	SFT				
19	FLOOR TRAP : Providing and fixing UPVC floor trap with PVC/CP grating set in cement mortar 1:3 and joining the existing soil pipes and in the kitchen with necessary solvents. The approx. size is 110 mm dia inlet and 75 mm dia outlet.	21.00	NOS				
20	SANITARY CHAMBERS: Constructing sewer chambers of internal dimension of 600 mm x 600 mm upto 0.6 mtr. depth with 230mm brick masonry in C.M.1:5 thk of masonry over bed of 1:2:4 R.C.C. 200 mm thk above 100 mm thk P.C.C.1:3:6 Cement concrete foundations over sand bed of 100mm thk channelling in 1:2:4 cement concrete, plastering in 1:3 cement mortar for internal and external surface finished with floating coat of neat cement, the work including excavation for required depth of gully trap and refilling and making good in the surface with SFRC cover and frame 600x600mm (clear opening) complete complying with standard specifications etc.,	4.00	Each				
21	ALUMINIUM VENTILATORS: Providing and fixing Aluminium powder coated & of approved colour Ventilator of 2 ft x 2ft or 2 ft x 4 ft size, using 62x45.5x1.5mm complying to 'INDAL, Specification for around and intermediate bottom, Top and side frames including all fittings, fixtures, SS mesh, handles etc, complete. There shall be provision for exhaust fan. The louvers panels shall be provided with 6mm thick plain glass of Saint Gobian or Asahi make with rubber gasket beadings. the item shall exclude the cost of exhaust fan.	64.00	SFT				

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22	NEW PVC/FIBER DOOR SHUTTER with door frame. Providing & fixing the made to order reputed make PVC /FIBER door shutters with PVC / FIBER door frame as per the specification of the manufacturers and fixing the same at specified locations with necessary civil work. The alround frame of the shutter shall be reinforced with wooden planks from inside to hold the hinges and other fixtures and the miniumu thickness of the shutter's inside plank shall be 6 mm solid plastic. The item shall include the cost of fixtures like handles, tower bolts, latches etc and fixing them. The shutter sample shall be got approved by Bank before placing the order. The payment is per door having approximate size of 2'6" wide x 7'0" height or part thereof.	27.00	NOS				
	SUB TOTAL OF BATH ROOM REPAIRS, NEW BATH ROOMS, TOIELTS, GUEST FACULTY ROOMS CONSTRUCTION WORKS						
C	CENTRAL COURTYARD AND MISCELLANEOUS WORKS						
C1	CENTRAL COURT YARD FILLING AND ROOF COVERING WORKS.						
1	Filling the central court yard measuring approximately 13 ft wide x 35 ft length (filling upto 1'6" ft depth only) using good quality red earth and cement at a proportion of 1 part cement with 10 parts red earth mixed with water and laid in layers of one feet each with proper compaction. The work shall include consolidation/ compaction of the filled earth completely. There shall be gap of 5 inches at the top (compared with adjacent corridor floor level) for providing PCC and tiles laying. The payment will be on the volume of the fillig done actually.	685.00	CFT				
2	Providing & laying P.C.C 1 : 2 : 4 [1 cement : 2 coarse sand : 4 graded granite stone aggregate - 20mm / 1" down size] using approved clean sand including machine mixing, laying, tamping, shuttering and curing etc for an average thickness of 3 inches over the prepared surface. The item shall include curing the concrete surface for minimum 7 days period.	460.00	SFT				
3	ATHANGUDI FLOOR TILES: Provding & laying 1" average thickness 10"x10" size ethnic variety "ATHANGUDI" floor tiles of approved design, colour shades using 40 mm thick cment mortar bed and cement slurry, including joints filling with whiote cement mixed with matching colour pigments.	460.00	SFT				

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4	CENTRAL COURTYARD ROOF COVERING MS WORKS : Providing & Fixing MS framed metal sheet roof cover as per the specifications provided in below items. Rates are inclusive of the cost of all materials, lifting charges, painting and complete cost of scaffolding, safety gadgets arrangements.The rate shall also include cost of all labour, fixing, welding etc complete for all the metal works at the second floor /terrace level.						
4a	VERTICAL SUPPORTS (C1 to C12) : Providing & fixing 100 mm (4") outer dia MS tubular pipe having minimum body thickness of 5mm as vertical supports each for a height of 2 ft. The bottom of the pipe shall be welded with 9"x 9" x 6mm thick MS plate and fixed over the floor/ parapet wall with 6 nos anchor bolts grouted with anchoring chemicals and necessary concreting over it. The top end shall have provision to hold the main rafters & cross supports & fixed with necessary nut & bolt system or with welding arrangement. The payable rate is per 2 ft running length of the pipe provided as a support with necessary provisions at the ends as detailed above & all works together with lead & lift etc.	12.00	NOS				
4b	PRINCIPAL RAFTERS (PR-1 to PR-4 & R-1 to R-5) : Providing & fixing mild steel (MS) rectangular tubular section of size 80mm x 40mm x 2.6mm thickness with Unit weight 4.55Kg/Meter as principal rafters and rafters as shown in the drawing to support the roofing structure. Rate includes all fabrication, interconnecting with vertical posts & other rafters & purlins. The end openings shall be closed with 1 mm thick MS sheet.	200.00	RFT				
4c	PURLINS(P1 to P6) : Providing & fixing mild steel (MS) rectangular tubular section of 40mm x 25mm size with 2.00 mm thickness and Unit weight 1.83Kg/M as purlins. Rate includes all fabrication, interconnecting with main rafters & roof sheet. The end openings shall be closed with 1 mm thick MS sheet.	235.00	RFT				

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4d	CORRUGATED METAL SHEET: Providing & Fixing Aluminium colour coated corrugated Galvalume sheet of JSW/ GANGA make and of 0.47mm thickness, above the MS FRAME work using self tapping screws. The sheets shall be laid as per the roofing profile as detailed in the drawings and as decided by the Engineer in charge and work shall be executed as per the various sloping profiles required at site. Rate shall include the cost of all materials, labour, lead, lifting charges, cutting, fabrication, scaffolding if any and material lifting etc all complete. There shall be overlapping for atleast one to 2 corrugations between the adjoining sheets. The rate is per unit area of roof area covered including overlap area which will not be measured separately.	730.00	SFT				
4e	POLYCARBONATE TRANSPARENT SHEET: Providing and fixing 3 mm minimum thickness flexible transparent polycarbonate sheet to the required profile over the MS frame work using self tapping screws at the 2nd floor roof level to have sunlight light to the court yard area.	70.00	SFT				
C2	MISCELLANEOUS WORKS						
5	CHEMICAL WATER PROOFING TREATMENT (For Entire terrace area and Over Head Water tanks kept area): Providing & applying chemical water proofing using proprietary chemical water proofing material like Brush bond coat of FOSROC brand or DAMP PROOF COURSE of Asian paints brand or its equivalent with minimum 5 years performance cum financial guarantee (i.e. 5% of the cost of water proofing works will be retained with the Trust and will be returned after successful completion of 5 years guarantee period without any interest). The item shall include clearing the dirt, dust from the existing terracotta tiles surfaces and joints, filling the tile joints & cracks with crack filler material, providing screed concrete if any to achieve the adequate slope and applying 2 or more coats of chemical treatment so as to achieve water tightness for atleast 5 years period, all as per the directions of the Engineer-in-charge.						
5a	RSETI (Admin) block	4800.00	SFT				
5b	ARTISANS (Dormitory) block	4845.00	SFT				
6	Rain water Down Take Pipe: Providing & fixing 4" diameter PVC pipe of Finolex or Supreme make with all required specials like shoes, collars, bends etc and fixed to the wall using PVC/MS clamps.	30.00	RFT				

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7	PATCH PLASTERING OF DAMAGED WALL /CEILING AREAS Carefully remove the damaged plastered portion from the external / internal wall surface & providing & applying new plastering in patches, of 20mm average thickness, using cement mortar 1:4 proportion finished rough on external wall areas & smooth on internal wall surfaces. The item shall include necessary scaffolding, preparing the surface to receive new plastering, curing of the plastered surface for minimum of 7 days period.	600.00	SFT				
8	ACID WASH OF BATH ROOM FLOOR / WALL TILES: Providing & applying acid wash cleaning for the ceramic/ glazed/ vitrified tiles to remove the permanent stains at least 2 times including water washing and thorough mopping in other bath rooms, toilet areas	300.00	SFT				
9	PCC 1 : 2 : 4 Providing & laying P.C.C 1 : 2 : 4 [1 cement : 2 coarse sand : 4 graded granite stone aggregate - 40mm / 1 1/2" nominal size] using approved clean sand including machine mixing, laying, tamping, shuttering and curing etc for an average thickness of 50 mm over the existing terrace area/masonry walls. The item shall include cutting the existing terrace weather proof course including tiles if any, cleaning the debris, dirt, dust and clearing the debris wherever walls & new flooring/ construction /tilings are proposed.	100.00	sft				
10	Providing repairs to the decorative concrete balustrades which are damaged, having 2 to 3 ft height using micro concreting after removing the damaged portion, applying bonding coat and finishing it to the original shape all complete.	50.00	NOS				
11	Wooden doors Fixtures						
a	Providing & fixing 6" Tower bolt - Powder coated Aluminium	12.00	NOS				
b	Providing & fixing 6" door handle - Powder coated Aluminium	9.00	NOS				
c	Providing & fixing 8" door Aldrop - Powder coated Aluminium	6.00	NOS				
d	Providing & fixing 4" SS Hinges	15.00	NOS				

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12	<p>SINGLE SHUTTERED WOODEN DOORS:</p> <p>The alround door frame shall be made of <u>well seasoned hard wood like Honne or Padaku or Vengai or Deodhar or Red Meranti species</u> or equivalent having finished size of 125mm x 60 mm size with machine planing and offset for shutter positioning. The shutter shall be of ISI marked single Leaf 30 mm thick factory made water proof grade flush shutter confirming to IS-2202 (part-I) decorative type, core of block board construction with frame made of First class hard wood and well matched hard wood 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutter. The shutters shall be finished with both side 0.8 mm thick laminate of Formica/Greenlam make and of approved shade, colour. The shutters alround edges shall be lipped with approved first clss quality beech or teak wood lipping. The door frame shall be finished with 2 coats of enamel paint over a coat of woode primer and this cost is inclusive in the item rate.</p>						
	<p>Each door frame shall be fixed in position using 6 Nos.of P.C. MS iron hold fast using C.C.1:2:4 proportion. Each door shutter shall have 1 no 10" long powder coated (PC) aluminium make Aldrop, 2 nos - 6" long PC aluminium handels, 1 nos 6" long PC aluminium tower bolts at centre level all approved makes, 4 nos MS Iron powder coated cut hinges of 6" length, 1 no floor mounted PC aluminium door stopper etc. complete as per detailed drawing.</p>	84	SFT				
13	<p>COMPUTER LAB COUNTERS</p>						
a	<p>Providing and fixing Running counter of total height 30 inches, width of 24 inches (all minimum dimensions) all as per tender drawing layout with front, top, main vertical supports upto the top at every 3 ft c/c all made out of 19 mm thick commercial plywood. There shall be one drawer cum storage unit for a width of 15" preferably on right side of the counter unit at every 3 ft interval. The portion below the drawers shall be storage unit with shutter, having handle, 2 hinges, locking arrangement.</p>						

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b	The front elevation of the counter shall be as per the design detailed in the drawing using 6mm thick design beach wood beadings to provide recession and finished with 1mm laminate. The working top, front face of the drawer cum storage unit shall be finished with 1 mm thick lamination. At every 3 ft interval there shall be cross support above the counter for a height of 1 ft level made of 19mm commercial plywood finished on both sides with 1 mm thick lamination and it shall have a curved profile towards the front seating side.						
c	For every seating area (3 feet length) there shall be a foot rest made of 3" x 2" hardwood section with proper painting finish. The drawers movement shall be with sliding arrangement with readymade TELESCOPIC metal slides and metal rollers. All the exposed edges shall be provided with beach wood beadings of size 1" x ¼" POLISHED. The inside & hidden surfaces to be polished to the required colour with 2 coats of colourless french polish. Each drawer shall have one multipurpose concealed lock and 3" long stainless steel handle. Necessary openings for the access of the wires with plug shall be provided with PVC caps for the counter top at appropriate location.	92	RFT				
14	STEEL DOOR : Manufacturing, supplying and fixing of Steel doors with following specification. MS angle of size 50x50x6mm at 3.9 kg/m shall be used for outer frame and MS Angle of size 35x35x5mm at 2.6 Kg/m for the shutter frame. Stiffeners with 32x6mm at 1.5 Kg/m MS Flat is provided as the lock rail of the door and welded intact on both ends to the shutter frame. 18 G CR Sheets of best quality is laid as panel in the shutter frames. 18x5mm at 0.70 kg/m MS flat is welded over the 32x6mm at 1.50kg/m MS Flat on the rear side of the door, sandwiching the CR Sheet for rigidity. Additional stiffeners with 18x5mm at 0.7 Kg/m MS flats are provided diagonally on the rear side of the shutter. Each door & shutter combine shall have 2 nos 10 inch long MS Aldrops- 2Nos, 4 nos 6" length MS hinges, 6 Nos of 250mm length hold fasts 200mm length specified at the ends are welded to the outer frame of the door. Tower bolt 2 Nos at the top & bottom	42	SFT				

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
	ELECTRICAL WORKS						
1	Supply, installation, fixing, testing and commissioning of 8 module TPN distribution board with incomer - one number 40 Amps 4 pole MCB and outgoing - one nos 32 amps 4 pole MCB, 3 nos 16 amps RCCB's, 5 nos 10 amps SPMCB's all of Legrand/ Schinder/ Havells/ Hagger make with necessary connecting wiring all complete as per the directions of the Engineer in-charge at proposed two new work sheds.	QRO	SET				
2	POWER CIRCUIT: Supply and wiring 3 runs of 4 sqmm of FINOLEX/POLYCAB/ANCHOR make PVC insulated flexible multistrand copper wire in 25mm dia 2mm thick universal make PVC conduit / casing capping as required for Raw power points.	30	RMT				
3a	LIGHTING UPS CIRCUIT: Supply and wiring 3 runs of 1.5 sqmm of COBRA/ANCHOR/FINOLEX make PVC insulated flexible multistrand copper wire in 19mm dia 2mm thick universal make PVC conduit / casing capping as required for Lighting Crcuit, Raw Power & Wall fan Points. 4 Raw Points or ceiling/wall fans or 6 lights in one Circuit for new Work shed area.	150	RMT				
3b	UPS TERMINAL BOXES: Providing & fixing UPS terminal boxes of Panasonic / Great white / Lisha make having 2 nos universal 6/16 AMPs socket with one control switch including METAL box, inside wiring and fixing to the Wooden counter.	30	NOS				
4	Providing and fixing with necessary wiring the following fixtures of Anchor / Lisha/Havells makes. The circuit wiring will be paid separately in the wiring item.						
a	5/15 amps Universal socket with switch control	15	Nos				
b	Individual switch for lights/ fans	40	Nos				
c	Step Up type electronic regulator	9	Nos				
d	PVC/ fiber gang boxes to house sockets, switches, regulators etc, with necessary fixing in the walls, wooden/ steel sections.						
i	2 way box	4	Nos				
ii	4 way box	6	Nos				
iii	6 way box	6	Nos				
iv	8 way box	6	Nos				
v	10 way box	2	Nos				

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
5	L T CABLE: Supply, laying, testing and commissioning of PVC insulated armoured aluminium cable of 4 core x 10 sqmm laid on wall/ground in 2" PVC pipe 4 mm thick as required complete with all accessories.	QRO	RMT				
6	GI EARTHING: supply and providing suitable earth station with 40 mm dia GI pipe 2.5 mtrs long; with alternate layers of sand and charcoal with cast iron cover and inclusive of civil works as per IS 3043 for earthing of AC & light points if required.	2	NOS				
7	Supply and installation of following lighting/fan fixtures for various blocks with necessary patch wiring and connections, commissioning.						
a	Providing & fixing Wall mounted fan with double bearings; Usha, Crompton Greaves or equivalent makes.	5	NOS				
b	1x22 Watt capacity 4 feet long tube type LED fitting with frame and adoptor to tap power from the bulb holder, fixing with MS chain suspender arrangement from the roof supports.	21	NOS				
c	Providing & fixing Ceiling mounted fan with double bearings; Usha or equivalent with electronic regulators.	3	Nos				
8	CEILING MOUNTED BULB HOLDER: Supply, Installation, Testing and Commissioning of Ceiling mounted modular type bulb holders of Havells/ Anchor Roma make suitable for fixing LED bulbs /CFL lamps with necessary wiring connections, PVC cover plate.	30.00	EACH				
9	WALL MOUNTED BULB HOLDER: Supply, Installation, Testing and Commissioning of wall mounted modular type bulb holders (angle holder) of Havells/ Anchor Roma make suitable for fixing LED bulbs /CFL lamps with necessary wiring connections, PVC cover plate	12.00	EACH				
10	Exhaust Fan : Providing & fixing 6" to 8" diameter size Usha/Havells/ Crompton greaves make exhaust fan with plastic fins for toilet / bath room ventilators, including necessary wiring, fixing to the ventilator's frame work.	6.00	EACH				
11	Supply and laying of 8 SWG copper wire in 1" PVC conduit for earthing	12	RMT				
	SUB TOTAL OF CENTRAL COURTYARD AND MISCELLANEOUS WORKS						

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	IN	RATE IN WORDS	AMOUNT IN FIGURES	IN	AMOUNT IN WORDS
D	PAINTING WORKS								
1	EXTERIOR EMULSION PAINT (APEX variety): Exterior walls painting as per the following specifications.								
a	Carefully prepare the exterior wall surface by pressure wash cleaning for removing algae growth and scraping the loose old paint surface with wire brushes to ensure that the entire surface is free of old loose paint particles and algae growth, attend to the visible cracks with cracks filling material. The item rate shall include necessary scaffolding, safety gadgets and all incidental charges to complete the works at various heights.								
b	Providing and applying two or more coats of ready mixed exterior emulsion paint of APEX variety of Asian Paints make or its equivalent in other makes, of approved colour/shade on the prepared exterior wall surfaces to give an even finish and shade. The item rate shall include necessary scaffolding, safety gadgets and all incidental charges to complete the works at various heights.								
1(i)	RSETI (Admin) block	12175.00	SFT						
1(ii)	ARTISANS (Dormitory) block	13375.00	SFT						
2	ENAMEL PAINTING :								
	Providing & applying ready mixed enamel paint of Asian paints or berger paints or approved brand and manufacture in all shades to give an even shade on wood work or steel work with <u>two or more coats</u> after thorough cleaning the old painted surface for dirt, oil, greace, rust etc., at all floor levels.	2750.00	SFT						

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	IN	RATE IN WORDS	AMOUNT IN FIGURES	IN	AMOUNT IN WORDS
3	INTERNAL CEILING AREAS PAINTING: Providing & applying plastic emulsion paint to internal Ceiling areas as per the following specifications.								
3a	scrape the old loose paint surface, uneven wall surfaces, all the edges, fill the holes, cracks using white cement based filler material and apply one or more coats of complete wall putty for the entire walls and ceilings surfaces to achieve smooth surfaces without any undulations and to make it ready to receive the following two paint coats								
3b	Providing and applying <u>two or more</u> coats of ready mixed plastic emulsion paints of Asian Paints/ Berger Paints or equivalent approved brand and shade to give an even shade over the prepared surface. The item shall include roller painting and cleaning the paint drops fully with necessary scaffolding.								
3(i)	RSETI (Admin) block	13050.00	SFT						
3(ii)	ARTISANS (Dormitory) block	7460.00	SFT						
4	INTERNAL WALLS PAINTING: Providing & applying plastic emulsion paint to internal walls areas as per the following specifications.								
4a	scrape the old loose paint surface, uneven wall surfaces, all the edges, fill the holes, cracks using white cement based filler material and apply one or more coats of complete wall putty for the entire walls and ceilings surfaces to achieve smooth surfaces without any undulations and to make it ready to receive the following two paint coats								
4b	Providing and applying <u>two or more</u> coats of ready mixed plastic emulsion paints of Asian Paints/ Berger Paints or equivalent approved brand and shade to give an even shade over the prepared surface. The item shall include roller painting and cleaning the paint drops fully with necessary scaffolding.								
4(i)	RSETI (Admin) block	17500.00	SFT						
4(ii)	ARTISANS (Dormitory) block	18400.00	SFT						
	SUB TOTAL OF PAINTING WORKS (D)								

SLNO.	DESCRIPTION OF THE ITEM	QTY.	UNIT	RATE IN FIGURES	RATE IN WORDS	AMOUNT IN FIGURES	AMOUNT IN WORDS
	SUMMARY						
A	SUB TOTAL OF COMPOUND WALL CONSTRUCTION WORKS (PART A)						
B	SUB TOTAL OF BATH ROOMS REPAIRS AND CONSTRUCTION OF TOILETS, GUEST FACULTY ROOMS, REPAIRS (PART B)						
C	SUB TOTAL OF CENTRAL COURTYARD AND MISCELLANEOUS WORKS [PART C]						
D	SUB TOTAL OF PAINTING WORKS [D]						
	GRAND TOTAL OF ALL SUBHEADS (A+B+C+D) EXCLUDING GST						
	ADD GST AT 18%						
	TOTAL AMOUNT AFTER GST						