

**BILL OF QUANTITIES FOR CONSTRUCTION OF PROPOSED CONFERENCE HALL AT NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA, ORISSA.**

Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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**A CIVIL WORKS**

1	Demolishing brick work manually / by mechanically means including stacking of servicable material & disposal of unservicable material within 50mtr lead as per the direction of Engineer in charge. At all heights					
a	in cement mortar	12	Cum			
2	Demolishing R.C.C. work including stacking of steel bars and disposal of unserviceable material within 50m lead. At all heights	1	Cum			
3	Masonry work:- Supplying and construction brick work at any location using best quality locally available bricks of compresive strength not less than 75 Kg/ sqcm as defined in IS 1077 in cement sand mortar (1:6) in foundation, superstructure , main hole duct drain etc. including fiar cutting, wastage, bounding, plumbing line level, flushing , racking joint, scaffolding and curing all as per drg. and as per direction of the engineer with, all material tools plant, labour complete. all upto floor V level. ( Recron 3S @ 125gm to be added 50Kg of cement) Payment will be made after producing invoice of the polyster construction fibre.					
a	At and all heights above finished ground level	120	Cum			

No of corrections:-  
 No of overwrittings:-  
 No of intepolations:-

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Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
4	Brick work at any location in 1:4 cement mortar in thin wall with locally available bricks of compressive strength not less than 75 Kg/sqcm as defined in IS 1077 at any location including supplying and placing GI hexagonal wire mesh of 12mm x 22 gauge at every fourth layer. ( Recron 3S @ 125gm to be added 50Kg of cement) Payment will be made after producing invoice of the polyster construction fibre. at all heights	82	Sqm			
5	Providing, laying in position Reinforced cement concrete ( 1:1.5:3) for reinforced cement concrete work including laying but excluding cost of centreing, shuttering , reinforcement , including all work upto floor V level. RCC work as defined by the latest IS 456 in all members including curing but excluding form work and reinforcement. All as per drawing and direction of engineer all materials ,tools plant and labour complete. . Recron 3S @ 125gm to be added 50Kg of cement.					
a	Above finished ground level with 20mm down graded aggregate. ( at all heights)	89	Cum			

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6 Form work:- Supplying and fixing ply and or steel shuttering for all type of RCC work at any location in provision with necessary centering, bracing proofing staging ( if required) etc. and striking including curved shuttering fine and facia for all plain & reinforced cement concrete works including all chamfer splays, filler keys, wedges proof, mails bracing bracket, cutting holes for embedement etc. and applying waste oil on shuttering surface in contact with concrete all as per drg. and direction of engineer all tools plant and labour complete rate including providing and laying plastic sheet to make water tight shuttering and removing the same. for all type of RCC work.

a At all heights & any location above finished Ground Level

675 Sqm

b Slope roof ( at all heights)

250 Sqm

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7 Supplying , loading , unloading transporting , straightening, decoiling, cutting, bending,cranking, tack welding as necessary placing and fixing in position steel reinforcement including angle /pins provided for approved welded joints at all level above and below finished G.L. for RCC and precast RCC work including supplying approved 20 SW annealed black binding wire, covel block etc. including all as per drg. and direction of engineer all material,tools plants and labour complete.High yield strength deformed bars of Grade Fe 500 of all diameters of cold twisted steel / TMT of TATA/ SAIL. at all heights

8.9 M.T

8 Inside plaster:- Providing 20mm thick cement plaster at any location in cement sand mortar proporation ( 1 cement: 6 coarse sand ) after racking out of joints, roughening the concrete surface, filling porturated surface,fixing wiremesh 200mm wide in case of concrete & brick work joints such that half on each surace fixed by help of nails cost includes of all materials, labour,lead, royalty, T & P, scaffolding, curing etc. complete in all respect as per the direction of Engineer. ( Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) . at all heights

435 Sqm.

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9 Providing 10mm thick plaster at any location cement plaster in cement sand mortar in proportion (1 cement : 4 fine sand) to ceiling of roof, beams, columns , chajja, soffit of stair case etc. after roughening the surface by proper chiseling ,surface preparation, filling porturated surface etc. cost includes of all materials, labour,lead, royalty, T & P,scaffolding, curing etc. complete in all respect as per the direction of Engineer .( Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) at all heights

425 Sqm.

10 External plaster:- Cement plaster in two coats at all heights -18mm CP in two coats under layer 12mm CP 1:5 ( 1 cement: 5 coarse sand) & top layer 6mm thick CP (1:3) (1cement : 3 coarse sand) at any location finished rough with sponge after racking out joints, roughening the concrete surface, filling porturated surface,fixing wiremesh 200mm wide in case of concrete & brick work joints such that half on each surace fixed by help of nails cost includes of all materials, labour,lead, royalty, T & P, scaffolding, curing, etc. complete in all respect as per the direction of Engineer . ( Recron 3S @ 125gm / 50Kg of cement to be added for preparing cement mortar) .Payment will be made after producing invoice of the polyster construction fibre .

335 Sqm.

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11	Providing and laying floor tiles of approved make with VC shield jointless floor tile (Veilcraft shield technology) of sizes (496 mm x 496 mm), 10mm thickness, matt finish with water absorption less than 3% & strength not less than 40N/sqmm, of approved colour & pattern laid on average 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand) complete in all respects cost includes all material, labour, tax, lead, cutting, wastage, T&P etc. as directed.	165	Sqm.			
12	Supplying, fixing vitrified tile in flooring of size 600mm x 600mm, 10mm thick water absorption less than 0.08% conforming to IS :15622 of approved colour & make (Euro/Bell/Granamite) at all heights laid over cement mortar 20mm thick of proportion (1 cement : 4 coarse sand). The joints shall be filled with cement slurry mixed with required pigment to match the colour of tile including cost includes all labour, material, Tools plants, curing etc. complete in all respects as per direction of Engineer. (Recron 3S @ 125gm to be added 50Kg of cement) Payment will be made after producing invoice of the polyester construction fibre.	270	Sqm			

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13 Supplying, laying and fixing anti-skid tiles (Somany/Johnson/ Kajaria) in toilet floors at all heights of ( 496mm x 496mm ) size approved make to floor surface conforming to drawings and designs set in 20mm thick cement mortar of proportion 1:4 to proper line and plumb including cutting to required size and shape and fixing at corners etc. and the joints are to be properly finished with white cement with required pigment and curing complete with cost of all labour, materials, taxes, T&P, conveyance etc. as directed by the Engineer. ( Recron 3S @ 125gm to be added 50Kg of cement) Basic cost of tile should not less than Rs 35.00 / sft

20 Sqm.

14 Supplying , fixing vitrified tile in skirting / dado 10mm thick water absorption less than 0.08% conforming to IS :15622 of approved colour & make ( Euro/ Bell/Granamite) at all heights laid over cement mortar 12mm thick of proportion (1 cement : 3 coarse sand). The joints shall be filled with cement slurry mixed with required pigment to match the colour of tile including cost includes all labour, material, Tools plants ,curing etc. complete in all respects as per direction of Engineer.( Recron 3S @ 125gm to be added 50Kg of cement) . Basic cost of the tile should not be less than Rs 79.00/ sqft

25 Sqm

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15 Providing and applying acrylic wall putty ( Birla/ Laticreate/ JK ) (synthetic) - water based of Birla white or Nerolac make at any location over plastered surface to prepare the surface even and smooth complete including scaffolding, material, labour, tools plants, labour complete in all respects. at all heights. over old / new work

860 Sqm

16 Painting two and more coats at any location with Acrylic distemper of Asian/ Nerolac ,approved shade to get an even shade over plastered wall & ceilings over one coat of primer as per manufacturers specification at any location cost includes all material ,repairing cracks, scaffolding , lead,T&P etc. complete in all respect as per the direction of the Engineer . at all heights & any location, over old/ new work

860 Sqm

17 Providing & fixing ceramic glazed tile of Kajaria/somany/Johnson/Nitco/Orient make , confirming to IS :15622 of approved shade & quality to dado at all heights over a base course of 12mm thick cement mortar ( 1cement : 3 coarse sand) / as per manufactures specification with white cement grouting with mixed matched pigment of approved manufacture etc. as specified & directed laid to required slope, cutting in required size to corners cost includes all labours, materials, T & P, lead, royalty, tax, curing etc. complete in all respects as per direction of Engineer. Basic cost of tile should not less than Rs 35.00 / sft

65 Sqm.

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18 Providing and fixing circular cast iron box for ceiling fan clamp 140mm internal dia. 73mm height, 5mm thick rim, bottom and top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding top lid shall be screwed into the cast iron box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be made of 12mm dia M.S. bar bend to shape as per standard drawing.

22 No

19 Supplying , fixing 18mm thick gang saw mirror polished (premoulded and prepolished) machine cut granite stone of any colour and shade, approved shade,colour & texture in flooring, stair tread ,landling,facias, counter top or similar location etc. at any location of approved colour & at all heights with base course of cement mortar 20mm thick of proporation (1 cement : 4 coarse sand) with joints treated with white cement mixed with matched pigment , epoxy touch ups, including rubbing , curing , moulding and polishing to edge to give high gloss finish cost includes all labour, material, Tools plants ,curing etc. complete in all respects as per direction of Engineer.

85 Sqm

20 Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc including machine polishing to edge to give high gloss finish etc. complete as per design approved by the engineer in charge.

85 Mtr

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21 Providing & Fixing of Alumunium Composite Pannel using of 3mm exterior Alumunium composite panel ( ALSTONE /ALCOBOND / equivalent BRAND) using 50mm x25mm alumunium tube ,baker rod, silicon sealant, 60mm fastner pressure tape,angle screw vivit and good quality structural silicon tube including cost of conveyance, taxes, of all material , labour ,T&P etc. complete in all respects. in all floors

10 Sqm

22 Finishing walls with textured exterior paint of required shade :- New work ( two or more coats applied @ 3.28ltr/10sqm ) over and including base coat of water proofing cement paint applied & 2.20kg/10sqm , at any location (as per manufacturer's specifiaction) to give an even shade over plastered wall cost includes all material ,repairing cracks, scaffolding, lead, T&P, labour, curing etc., complete in all respect as per the direction of the Engineer.

335 Sqm

23 Supplying , fixing 18mm thick mirror polished granite stone lining / cladding of any colour to stair riser of steps ,etc. at any location of approved colour & at all heights with base course of cement mortar 12mm thick of proporation (1 cement : 3 coarse sand) & cement slurry @ 3.3kg/sqm including pointing in white cement cost includes all labour, material, Tools plants ,curing etc. complete in all respects as per direction of Engineer.

8 Sqm

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24	<p>Providing &amp; fixing in position at any location 35 mm thick ISI marked factory made solid core block board partially glazed flush door with 10mm thick glass as glazing as per the detailed drawing confirming to IS:2202, Part-1 hot pressed shutter of Greenply Industries Ltd./Aeon both side commercial with well matched teak 3 ply veneering with vertical grains / cross bands and face veneers on both faces of shutter of approved make &amp; quality bounded with phenol formal dehyde synthetic resin, leaping around complete as specified with lamination of 1 mm thick of approved shade /make</p> <p>&amp; as directed cost includes of all hardware fitting like cylinrical lock, door closer, door stopper, stainless steel tower bolt, stainless steel hinges, stainless steel door handle 2 nos of approved make etc. cost includes all material, labour, tools and plant , tax as per drawing and directed by engineer.</p>	24	Sqm.			
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25 Providing, fitting and fixing fully glazed aluminium sliding windows (two track), at any location made out of polyster powder coated aluminium sections minimum thickness of polyster powder coating 50 micron (JINDAL/HINDALCO) confirming to IS- 733 & IS-1285 as per drawing, confirming to latest IS specification with necessary fittings, fixtures and hardwares like concealed locks , aluminium handles, etc., glazed with 5mm thick clear glass free from bubbles with sun reflective film, holes or any surface deformation, as per the drawing and design, and fixed to the walls or columns with lugs in cement concrete 1:2:4 cutting holes and making good to all damages, including filling gaps if any, between the frames walls/ columns, with appropriate sealant, including cost of all materials, labour, conveyance, taxes, royalties, scaffolding, sundries, tools and plants, etc., complete as per the direction of the Engineer.

40 Sqm

26 Supplying & fixing M.S. grills at any location made of M.S. flat of size 25x 6mm , 20mm x 5mm & 16mm/ 12mm / 8mm square bar as per detailed drawing & design cleaning with sand paper the iron bubbles with painting two coats of synthetic enamel paint over two coats of zinc chromate / metal primer (approved make and shade) complete in all respects with all labour, material ,fabrication charge, lead etc. as per direction of Engineer.

860 Kg

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27	Supplying, fitting and fixing of Stainless steel of 316 grade in hand railing using top railing with 50mm dia of 2mm thick circular pipe in stair case as per approved design and specification, buffing, polishing etc with cost, conveyance, taxes of all materials, labour, T&P etc. required for the complete in all respect. only length of railing will be taken for payment.	25	Mtr.			
28	Providing & Laying screed concrete in proportion ( 1 cement :2 coarse sand :4 stone aggregate 6mm down size ) 50mm thick in proper level , line at all heights & any location , compacting , curing ,all material, labour, scaffolding etc complete in all respects as per the direction of Engineer in charge, ( Recron 3S added @ 125gm / 50kg of cement)	500	Sqm			

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29 Providing & applying water proofing treatment to the roof slab at any location over a clean ,levelled surface free from loose foreign material, oil,grease etc. by help of wire bush, vaccum cleaner. Then mixing Dr FIXIT PIDIFIN 2K powder with liquid in ratio ( 2:1) by mechanical mixer to get a constitent mix. The surface to be moistened before application of DR.FIXIT PIDIFIN 2K . Apply the 1st coat of mixed DR. FIXIT PIDIFIN 2K on the surface & allow dry for 4-6 hrs @ 30 deg C. Then 2nd coat to be applied . cost includes all material, labour, scaffolding, curing, T&P etc. complete as per the direction of engineer. Pidicreate MPB will also be applied as per the manufacture's specification.

500 Sqm

30 Providing chemical anchoring with following dia reinforcement including drilling to requisite depth, chemical treatment all as per the manufacture's specification by Fischer / Hilti make cost includes all material, labour, tax , lead , tools plant, scaffolding charges etc. complete in all respects.

a 8mm

120 Each

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31 Providing & Laying pressed clay tiles (as per approved pattern 20mm nominal thickness and of approved size) on roof jointed with cement mortar 1:4 ( 1 cement : 4 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20mm thick cement mortar 1:4 ( 1 cement : 4 coarse sand) & finished neat complete including all material,labour, scaffolding charges , making good the damages etc. Cost icludes painting the tiles after laying with approved quality paint to get an even shade.

250 Sqm

**Total**

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## B WATER SUPPLY & SANITARY WORK

General note- Wherever CP is mentioned it means Brass CP. All the PHD fittings are of Jaquar continental series/ Crabtree.

- 1 Carefully taking out of all sanitary fittings , water supply & sewerage pipe lines, water supply fittings, handing over the pipes & fittings to the competent authority of NIT & disposal of debris as per the direction of Engg-in-charge. Cost includes all labour,tools plant , scaffolding etc. complete.

1 Set

- 2 Providing, Supplying & Fixing Indian type water closet I.S.I. Marked (confirming to IS : 7231) at all heights of (Parryware/ Cera) make with integral foot rest white vitrious ware with P / S trap (PVC) with 10.0 ltr capacity low level flushing cistern in white plastic manually controlled device (handle lever) of approved make /shade with all internal fitting. etc. with all fittings & fixtures complete including making good the damages . including cost of all materials, labour,tax, T&P, lead, royalty etc.complete in all respects as per direction of Engineer. White vitreous china orissa pattern WC pan size ( 580x440mm ) with integral type footrest, 32mm dia flush pipe Eqv to- Cat no- 2092 Orissa pan of Cera. & Prima, cat no 2690 , Flushing Cistern of Cera)

2 No

No of corrections:-  
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Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
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3 Providing & Fixing one piece construction white vitreous china squatting plate ( Cat no- 5003 , Crystal white colour of Cera) with an integral flushing pipe, white pvc automatic flushing cistern ( Cat no- 5101 of Cera ) with fittings ,standard size GI flush pipe for back and front flush with standard spreader pipes with fittings,GI clamps,CP brass coupling complete including painting of fittings and cutting and making good the walls and floors etc. wherever required . Range of two squatting plates with 10 ltr PVC automatic flushing cistern.

1 No

4 Providing & fixing Divisional Plate of Cat no- 5011 of Cera size 700 x 340x 120mm at any location and at all heights of crystal white colour to be fixed in wall including making good the damages including cost of all materials, labour, lead, tax, royalty etc. complete in all respects as per direction of Engineer.

4 No

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5 Providing & constructing urinal platform at all heights as per drawing in P.C.C. [1 cement: 4 coarse sand :8 graded stone aggregates ] in proper slope using 20mm size graded crusher broken black hard granite chips cost includes shuttering as required & making good the damages as per drawing including cost of all materials, labour, lead, royalty, tax,curing etc.complete in all respects as per direction of Engineer. (0.75 mt bredth x 0.10mt height)

1.5 Sqm

6 Providing & fixing oval type counter top basin of size (550mm x 400mm) , crystal white colour cat no- 1005 of Cera at all heights & at any location including 15 mm dia Brass CP pillar cock long neck with aerator of Jaquar make, pvc waste pipe, CP waste coupling, connecting pipe & making good the damages as per drawing including cost of all materials, labour, lead, tax, royalty, T&P etc.complete in all respects as per direction of Engineer.

4 No

7 Providing & fixing 6mm thick beveled edged sheet glass mirror of approved make with 6mm ply BWR grade ply backing & teak wood beading four sides ,CP mirror round clamps and making good the damages as per drawing including cost of all materials, labour, lead, T&P, tax,royalty etc.complete in all respects as per direction of Engineer

3 Sqm

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8	Providing & fixing Brass CP towel rail 24" of Jaquar make with necessary screws & making good the damages as per drawing including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer.	2	No			
9	Providing & fixing Brass CP towel ring of Jaquar make with necessary screws & making good the damages as per drawing including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer.	2	No			
10	Providing & fixing Brass CP robe hook double coat of Jaquar make with necessary screws & making good the damages as per drawing including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer.	2	No			
11	Providing & fixing Brass CP soap dish of Jaquar make with necessary screws & making good the damages as per drawing including cost of all materials, labour, lead, royalty,tax,T&P etc.complete in all respects as per direction of Engineer.	4	No			

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12 Providing & Fixing 15mm dia brass CP standard plain/ angular type head stop cock of easy clean pattern of Jaquar make & making good the damages as per drawing including cost of all materials, labour,tax, lead,T&P, royalty etc.complete in all respects as per direction of Engineer

8 No

13 Supplying & Fixing 15mm dia brass CP standard head bib cock long body of easy clean pattern of Jaquar make & making good the damages as per drawing including cost of all materials, labour,tax, T&P, lead, royalty etc.complete in all respects as per direction of Engineer

2 No

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- 14 Supplying & laying of the PVC (SWR) and rigid PVC soil waste and vent pipes of Finolex /Prince/Supreme make of Selfit type/ring fit type as per requirement, on the wall surface and below ground and floor level. The rates includes fixing the pipes on wall surface with the PVC clips/clamps, all necessary fittings, including jointing with rubber ring, rubber lubricant, gasket for PVC (SWR) pipes / solvent cement for rigid PVC pipes to required length. Testing as per the specifications of manufacturer. Necessary earthwork in excavation and filling of the pipeline trenches, providing staging and scaffolding as per requirement at site all complete as per direction of Engineer-in-charge is inclusive in the rate. The rate also includes all labour, material, transportation, lead, lift, ascent, descent, taxes, royalty etc.excluding PCC below pipe & encasing the pipe if required & will be paid in separate item.
- a 160mm dia PVC (SWR) pipe class "A" ( with wall thickness of 2.70mm to 3.20mm) 15 Mtr
- b 110 mm dia PVC (SWR) pipe Class 'A' (with wall thick of 2.20 mm to 2.70 mm) 22 Mtr
- 15 Supplying and fixing of rigid PVC fittings of (Finolex / Prince/ Supreme make) in the pipe line both below and above wall/ground with all necessary fittings and earthwork in execution etc. complete as per manufacturer specification. The rate is inclusive of all labour, material, transportation lead, lift, ascent, descent, taxes, royalty etc.

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a Nahani trap with jalli 110mm x 110mm PVC (SWR/Nabivi trap as per requirement). 4 No

16 Supplying & Fixing following dia GI (as per IS : 1239) TATA medium class -B pipes with making necessary GI fittings such as bends, tees, elbows, reducers, socket,caps, clamps, plug, union etc.of approved make & quality & making thread & connecting the branch inlet with extension pipe & making good the damages as per drawing including cost of all materials, labour, tax,T&P, lead, royalty etc.complete in all respects as per direction of Engineer.

a 32mm 15 Mtr

b 25mm 18 Mtr

c 15mm 10 Mtr

17 Providing and fixing on wall face unplasticised PVC moulded fittings/ accessories for unplasticised PVC rain water pipes ( Finolex/ Prince / Supreme ) Class- A conforming to IS : 13592 (Type-A) including jointing with seal ring conforming to IS : 5382 leaving 10mm gap for thermal expansion.

a 110mm dia 25 Mtr

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18 Supplying and Fixing Stainless steel sink of Salem stainless steel AISI 304 (18/8) kitchen sink (Nirali/Parryware) as per IS:13983 with CI bracket and stainless steel plug 40mm including painting of fittings and bracket, drain pipe, cutting & making good the walls wherever required at any location.  
Kitchen sink without drain board 610mm x 460mm bowl depth 178mm.

1 No

**Total**

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### C INTERIOR & FURNITURE

1	Providing and fixing gypboard (Ultra )suspended false ceiling (single layers) in different levels, recesses, flat areas as per design with G.I. Framework using Gypsteel of perimeter channels, intermediate channels and ceiling sections) and 12.5 mm taped edge gypboard screw fixed to ceiling section as per design , complete with fixing and finishing of tapered and square edges of board with jointing compound paper tape and 2 coats suitable primer including all cost of materials , labour, overheads T & P etc., complete.and painting the entire ceiling area with plastic emulsion paint ( 2 & more coats ) to get an even shade as per the detail design and specification.	495	Sqm			
2	Providing and fixing cove light tray made of gypboard (Ultra )s with G.I. Framework using Gypsteel and 12.5 mm taped edge gypboard screw fixed to ceiling section as per design , complete with fixing and finishing of tapered and square edges of board with jointing compound paper tape and 2 coats suitable primer including all cost of materials , labour, overheads T & P etc., complete.and painting the entire ceiling area with plastic emulsion paint ( 2 & more coats ) to get an even shade as per the detail design and specification.	90	Mtr			

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Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
				in figures	in words	

3 Wall Lining which includes 12.5mm thick Flutone board of Gypsum India (conforming to IS:2095-1982) screw fixed to the Gypliner channel section (0.55mm thick having a web of 41mm and two equal flanges of 18mm each with lips of 6mm made of G.I steel) placed at 610mm centres in H.G angle (0.55mm thick having two equal flanges of 25mm each made of G.I steel) fixed to the floor and ceiling with nylon sleeves & wooden screws at 610mm c/c. Fixing bracket (0.9mm thick, 29.5mm wide & 195mm long) are fixed between channel section & wall at required position and level with the help of nylon sleeves & wooden screws. Finally square & tapered joints of the boards are jointed & finished so as to have a flush look which includes filing & finishing with jointing compound. Joint paper tape and two coats of Drywall Top Coat suitable for Gypboard (as per recommended practices of India Gypsum).Cost includes painting with primer one coat & two coats of acrylic emulsion paint of approved make & shade. cost includes all material,labour,scaffolding, tools plant, lead etc. complete in all respect as per the direction of Architect.

80 Sqm

4 Providing and fixing Resin Bonded Fibre glass wool conforming to IS : 8193 (Twiga Insul 1500/50mm or equivalent) ,density 24 kg/m<sup>3</sup>, 50mm thick, wrapped in 200 G Virgin polythene bags fixed with metallic cleats (50 X 50 X 3mm) @ 60cm and wire mesh of 12.5mm x 24g wire mesh. Cost includes all material,labour,scaffolding, tools plant, lead etc. complete in all respect as per the direction of Architect.

150 Sqm

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
				in figures	in words	

5	Providing wall paneling over frame work made of wooden section (Sal/Kasi/Giringa) (50mm x 40mm ) / non anodised alumunium section ( 50.8mm x 25.4 mm x 1.5mm thick) fixed with wall with the help of rawl plug & screw @ 600mm c/c bothways & 12mm thick BWR grade ply confirming to IS-303/710 fixed over the frame & finally 1mm thick lamination of approved pattern / shade of Greenlam / Royal Touch with teak wood beading (melamine polished ) of requisite size to be fixed cost includes all material,labour tax,scaffolding, tools plant etc. to complete the work in all respects.	205	Sqm			
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No of corrections:-  
 No of overwrittings:-  
 No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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- 6 Providing and fixing full height partially glazed partition by using well seasoned secondary hard wood section ( 50 x 40mm) moisture content not more than 12%. The placement of wooden members at a distance not greater than 600mm center to center vertically & horizontally one at floor level, 2nd at 900mm , 3rd at 2100mm level with respect to floor level. Then fixing wooden frame with floor by grouting with rawl plug and screw and fixing 6 mm BWR grade ply confirming to IS-303 on both sides of wood frame from floor level to 900mm level with respect to floor level with approved quality adhesive and nail. Then fixing laminate 1.00mm thick of approved shade and make on both side of partition over 6mm ply, where as from level 900mm to 2100mm should have 8mm thick clean glass with necessary eatching with teak wood beading (polished ) as per detail working drawing & direction of Architect in Charge.

Solignum solution or any other equivalent chemical shall be applied on wooden members which get concealed within the partition for anti-termite protection.

52 Sqm

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
				in figures	in words	

- 7 Providing and fixing full height double skin partition by using well seasoned secondary hard wood section ( 50 x 40mm) moisture content not more than 12%. The placement of wooden members at a distance not greater than 600mm center to center vertically & horizontally one at floor level, 2nd at 900mm , 3rd at 2100mm level with respect to floor level. Then fixing wooden frame with floor by grouting with rawl plug and screw and fixing 6 mm BWR grade ply confirming to IS-303 on both sides of wood frame from floor level to 900mm level with respect to floor level with approved quality adhesive and nail. Then fixing laminate 1.00mm thick of approved shade and make on both side of partition over 6mm ply, as per detail working drawing & direction of Architect in Charge.

Solignum solution or any other equivalent chemical shall be applied on wooden members which get concealed within the partition for anti-termite protection.

70 Sqm

- 8 Supplying & Fixing vertical venetian blinds of (Vista / Star / equivalent) 100mm thick approved shade to the existing windows & partition with drapery rod, sliding channel arrangement, twisting cord etc. including cost of all material, labour, tax, lead,T&P etc.as per detail working drawing & direction of Architect in Charge complete in all respects.

65 Sqm

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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- 9 Providing & fixing low height storage unit/ file cabinet of 750mm height / (as per site condition) & 450mm width & length as per site condition. The cabinet comprises two no of shelf (2 no) shelf horizontally and vertical members to be placed not more than 0.75 mt length/ less as per site condition. The cabinet made of 19mm BWR grade Block Board (confirming to IS-1659) (teak wood edge leaping -polished) with all exposed surface should be laminated ( 1.00mm thick ) of approved shade & brand . The cabinet should have locking arrangement with ( Multipurpose lock - Godrej). All inside surface painted with 2 coats of enamel paint over 1 coat of primer cost includes all material, labour, T& P, Tax, lead, hardware of approved make complete in all respects as per detail working drawing & direction of Architect in Charge.

Solignum solution or any other equivalent chemical shall be applied on wooden members which get concealed within the partition for anti-termite protection. (Only front area of cabinet shall be measured for Payment).

25 Sqm

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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10 Providing and fixing thermal insulation of ceiling (under deck insulation) with Resin Bonded Fibre glass wool conforming to IS : 8183 density 24kg/m<sup>3</sup>, 50mm thick, wrapped in 200 G Virgin Polythene bags fixed to ceiling with metallic cleats 50x50x3 mm) @ 60 cm and wire mesh of 12.5mm x 24g wire and mesh, for top most ceiling of building.

450 Sqm

11 Providing and applying textured spray finish of altek/ approved make and pattern/ shade including cost of all material,labour,tax,lead ,tools ,plant, scaffolding charges etc.

40 Sqm

12 Supplying & Fixing in position senate hall table of 1'4" wide x 2'6" height & length as per site condition with 2nos 19mm thick Block Board back to back with edge leaping ( polished) . The table comprises of legs 32mm dia round stainless steel pipe grade AISI 304 ( 18/8) rust free non magnetic grade satin matt finish placed at a distance not more than 4'0" c/c , the table top rests on 25mm x 25mm SS square pipe frame as per the drawing fixed on the top of the SS pipe. , fabrication charge, screws, beading to the cutting edge Cost includes all material,labour, fabrication charges, lead,tools plant, painting complete in all respects. The front face of table should have closed with 8mm thick flexiply with lamination ( 1mm thick) finish 18" depth ,so that 9" height will be maintained from the table top.

70 Mtr

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

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Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
				in figures	in words	

13 Providing and laying workstation of over all size ( 4'6" X 2'6" ) . It shall consist of ¾" thk. BWR Block board top as per design (double edge on the front and back with 1 1/2" thk half round moulding on the edges) supported on ¾" thk. BWR Block board verticals. Suitable (as per Architects design) wooden moulding with mellamine shall be provided to the edge of the top. The Table top should be finished with 1 mm Laminate (suede finish) of approved make and all other external to be finished in 1.0 mm. Thk. Laminate (suede finish). Each top should be provided with 3" dia PVC wire manager of approved quality near the CPU / Monitor position as shown in drawing.

1 no. Shelf for CPU to be provided below the desk as shown in the drg. All the inner surfaces shall be finished with natural french polish.

1no. Computer key board tray (either ready made / made to the order as per architects design using 3/4" thk BWR grade Block board base and 1" x 2" round edged moulding on the front fixed with telescopic/double(Hafele/Ealrbihari/solo make) approved sliders)

No of corrections:-  
 No of overwrittings:-  
 No of intepolations:-

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Sl. No.	Item Description	Qty	Unit	Rate	Rate	Amount
				in figures	in words	

A drawer unit as shown in the drg shall be provided. 3 nos of drawers and 1 no. of tray with 1.0 mm. Thk. Laminate shall be provided. Height of drawers shall be 3", 4" and 11". Drawer shall consist of ½" thk. Comm. Ply sides, back and ¼" thk. Comm. Ply base. Facia of drawers shall be of ¾" thk. Comm. Ply finished in 1.0 mm. Thk. Laminate (suede finish) and with a wooden moulding on top/bottom edge for handle. 1" gap to be maintained between each drawer. Each drawer shall slide on a pair of telescopic drawer sliders(Hafele/ebco).

Rate shall be inclusive of all necessary approved fittings like locks(Godrej make/Vijayan) for drawers and any miscellaneous hardware items.

Item includes side credenzas of above mentioned sizes and as per drg. It shall consist of ¾" thk. BWR grade block board top and ¼" thk. BWR grade block board backs. The edge of top will be provided with a suitable (as per Architects design) wooden moulding finished with mellamine. A pair of ¾" BWR grade block board shutters will be provided which shall slide on 1" x 1" wooden battens above skirting. 1" x 3/8" deep vertical depressions shall be made on each shutter to act as handles as shown in the drg. All external surfaces to be finished in 1.0 mm laminate (suede finish) of approved make.

A ¾" thk. Fixed BWR grade block board shelf on battens shall be provided at 16" intervals from the base.

No of corrections:-  
 No of overwrittings:-  
 No of intepolations:-

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Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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Rate shall be inclusive of all necessary approved fittings like slidding roller, locks(Godrej make/Vijayan), tower bolts and any miscellaneous hardware items.

16 No

14 Providing & Fixing 3M film on glass with approved design & drawings with cost of all material, labour, tax,lead tools plant etc. complete.

10 Sqm

15 Providing and fixing low height partition of height 1.2mt from floor level by using well seasoned secondary hard wood section ( 50 x 40mm) moisture content not more than 12% . The placement of wooden members horizontally one at floor level ,second at 900mm level & third at top of the partition with respect to floor level ( top member should not be given at glass portion) and vertically at a distance not greater than 600mm center to center & then fixing 6 mm BWR grade confirming to IS-303 with lamination (1mm thick) of approved make & shade on both sides of partition and exposed edge of partition with teak wood moulding with melamine polish . 12mm glass ( machine edge moulded only to the exposed surface ) to be provided as glazing with the help teak wood beading ( polished) of the both sides cost includes all material, labour, tax, lead, T&P etc. complete in all respect as per detail working drawing & direction of Architect in Charge.

9 Sqm

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.

Sl. No.	Item Description	Qty	Unit	Rate in figures	Rate in words	Amount
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16	Providing wall paneling with locally available teak wood 38mm thick melamine polished, teak wood beading (melamine polished ) to be fixed cost includes all material,labour, tax, scaffolding, tools plant etc. to complete the work in all respects. Cost includes all material,labour,scaffolding, tools plant, lead etc. complete in all respect as per the direction of Architect.	80	Sqm			
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**Total**

### ABSTRACT

A	CIVIL WORKS				Rs
B	WATER SUPPLY & SANITATARY WORK				Rs
C	INTERIOR & FURNITURE				Rs

**Total**

**Rs**

**In words:-**

No of corrections:-  
No of overwrittings:-  
No of intepolations:-

Sign of Bidder

Sign of Engg-in-charge.