

BILL OF QUANTITIES FOR CONSTRUCTION OF GENERAL CLUB (GROUND & FIRST FLOOR) & CONSTRUCTION OF FIRST FLOOR & RENOVATION OF GROUND FLOOR FACULTY CLUB AT NATIONAL INSTITUTE OF TECHNOLOGY- ROURKELA.

PART-I, CLUB BUILDING (general -new construction (GF &FF) & faculty club -renovation of Ground floor & construction of first floor) WITH INTERNAL , EXTERNAL PH & SANITATION, SURFACE DRAIN & AMPHITHEATRE DEVELOPMENT.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
Section-1.A. FOUNDATION & PLINTH.					
1 (a)	Surface dressing of the ground including removing vegetation, inequalities not exceeding 15cm in depth and disposal of rubbish lead upto 50m and lift upto 1.5m.	1,400.00	Sqm		
b)	Excavation in all types of soils soft or hard, including soft or hard murrum, soft rock, black cotton soil as per specification including shoring, strutting, bailing, pumping out water, backfilling in pits, trenches or in Plinth as directed with selected excavated soil in 200mm thick layers, rate also to include removal of soling/metalling and stacking the excavated material watering, spreading, compacting ramming & backfilling and carting & spreading surplus earth within or outside the premises as directed. no extra will be payable on account of lead.				
2	Back filling around foundations and plinths to proper grade and level with selected excavated soil including watering and ramming in layers of 25 cm. thickness to 90% max dry density by manual/ mechanical means in saturated condition, dressing etc. complete including transportation.	204.00	Cum		
3	Filling the foundation & plinth with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer . -in-charge.	140.00	Cum		
		200.00	Cum		

No of corrections:-

No of interpolations:-

No of overwrittings:-

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
4	Providing and Laying of Plain Cement Concrete of proportion (1cement: 4 coarse sand: 8 graded metal 40mm down size) by volume in foundation & sub-floor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead.royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	58.00	Cum		
5	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks with tolerance +/-8% having crushing strength not less than 75Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) by volume in foundation & plinth including cost of all materials, labour, testing charges of material, lead, royalty, curing,pointing, T&P etc. complete in all respect as per the direction of Engineer . -in-charge	73.00	Cum		
6	Providing, mixing and placing in position and compacting Reinforced cement concrete of design mix M - 25 conforming to grade controlled concrete of approved design as per IS 456 and as per approved mix design,as per the drawings using graded stone aggregates of nominal size 20 MM , including vibrating compacting, curing, hacking the surface to receive plaster complete inclusive of all labour/materials and as directed by Engineer-in -charge but excluding the cost of providing of steel formwork/ shuttering and steel reinforcement .	49.00	Cum		
7	Providing and fixing rigid smooth centering and shuttering made out of RCC shuttering ply conforming to I.S. : 4990-1998 or marine ply conforming to I.S. - 710 including starting, propping laying of water proof paper or plastic sheet to the horizontal surface to make water tight shuttering and also removal of form work including the cost of all labour, materials. (Only the area in contact with concrete will be measured.).	235.00	Sqm.		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
8	Providing, straightening, bending, binding and placing in position high strength deformed bars for reinforced cement concrete work including distribution bars, stirrups, binders etc. including initial straightening, removal of loose rust (If necessary cutting to requisite length, hooking, bending and binding to correct shape placing in proper position and binding with 20 gauge black annealed wire at every intersection complete as per drawing and direction. Payment to be made on actual quantities of reinforcement used in the work as per drawing and direction, weight calculated as per standard tables with three places of decimal and no extra for wastage, unnecessary overlaps or rolling margin shall be paid for, weight of binding wire shall not be measured its cost being included in the rate of reinforcement.)				
		6.60	M.T.		
9	Providing and injecting Chemical emulsion chloropyriphos 20% E.C. for pre and post- constructional anti- termite treatment and creating chemical barriers as per I.S. 6313 Part-C (of latest edition) in wall trenches, foundation, top surface of plinth, filling, junction of walls and floors along the external perimeter of the building, surrounding of pipes etc. complete. The work shall be execute through approved agency/agencies and with guarantee of 10 years. The rate shall be as per plinth area including as directed below. a) Using Chemical Emulsion @ 7.5 Ltr/sqm for i. Back filling immediate contact with masonry foundation. ii. Junction of walls and floors. iii External perimeter of building b) Using Chemical Emulsion @ 5.0 Ltr/sqm i. Bottom of side trenches. ii. Top surface plinth filling. Plinth area of the building at ground shall be measured for payment				
		310.00	Sqm		
	Total				

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
Section-1.B. SUPERSTRUCTURE.					
1	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks with tolerance +/- 8% having crushing strength not less than 75 Kg/sqcm in cement sand mortar (1 cement : 6 coarse sand) by volume in superstructure including cost of all materials, testing charges of material, labour, lead, royalty, curing, pointing, scaffolding, T&P, tax etc. complete in all respect as per the direction of Engineer . -in-charge	280.00	Cum		
2	Providing & constructing Half Brick masonry for partition wall using locally available K.B. bricks of (25cmx 12cm x 8cm) +/- 8% size using Cement sand Mortar in proportion (1cement: 4 coarse sand) by volume for superstructure crushing strength of bricks not less than 75kg/sqcm in every course, hoop iron at an interval of four layer cost includes all materials & testing charges, labour, lead,royalty , scaffolding , T&P, tax, curing etc. complete in all respects as per direction of Engineer / -in-charge.	55.00	Sqm		
3	Providing, mixing and placing in position and compacting Reinforced cement concrete of design mix M - 25 conforming to grade controlled concrete of approved design as per IS 456 and as per approved mix design,as per the drawings using graded stone aggregates of nominal size 20 MM , including vibrating compacting, curing, hacking the surface to receive plaster complete inclusive of all labour/materials and as directed by Engineer-in -charge but excluding the cost of providing of steel formwork/ shuttering and steel reinforcement .	205.00	Cum		
4	Providing and fixing rigid smooth centering and shuttering made out of RCC shuttering ply conforming to I.S. : 4990-1998 or marine ply conforming to I.S. - 710 including starting, propping laying of water proof paper or plastic sheet to the horizontal surface to make water tight shuttering and also removal of form work including the cost of all labour, materials. (Only the area in contact with concrete will be measured.).				
4.1	Column, Beam, Lintel, Chajja, Fin, Flat slab,landling, pergola beam.	940.00	Sqm		
4.2	Stair case (steps) & sloped roof	790.00	Sqm		
No of corrections:-					
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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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5 Providing, straightening, bending, binding and placing in position high strength deformed bars for reinforced cement concrete work including distribution bars, stirrups, binders etc. including initial straightening, removal of loose rust (If necessary cutting to requisite length, hooking, bending and binding to correct shape placing in proper position and binding with 20 gauge black annealed wire at every intersection complete as per drawing and direction. Payment to be made on actual quantities of reinforcement used in the work as per drawing and direction, weight calculated as per standard tables with three places of decimal and no extra for wastage, unnecessary overlaps or rolling margin shall be paid for, weight of binding wire shall not be measured its cost being included in the rate of reinforcement.)

32.00 M.T.

Unless otherwise specified, rates quoted for all items shall include the following:

- (1) Final preparation of base sub grade as sub floor including minor trimming of the base to remove slight undulations.
- (2) Cleaning and watering immediately before laying the floor as indicated.
- (3) Providing bedding layer of moisture as specified in the case of slabs, tiles etc., at correct levels for steps as called for.
- (4) Cutting, rubbing and polishing wherever applicable.
- (5) Skirting to be made flush with the wall face.
- (6) Keeping the surface wet for a minimum period of one week.

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
6	Providing and laying polished kota stone of size 600mm x 600x25mm, of approved quality, laid to pattern as per drawing, set in rich cement mortar 1:4, 20mm thk, , including cement slurry. Joints to run continuous horizontally and vertically. Rate to include levelling of the existing floor if required and 7-stone polishing with tin oxide, waxing, pointing of joints with white cement mixed with matching pigments. etc., all complete as per specifications and directions of the Engineer incharge.	800.00	Sqm.		
7	Supplying, fixing and laying anti-skid ceramic tiles in all floors at all heights of (300mm X 300mm)size of approved make to floor surface conforming to drawings and designs set in cement mortar of proportion 1:3 to proper line and plumb including cutting to required size and shape and fixing at corners splays and chambers 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 / Architect.	28.00	Sqm.		
8	Providing & fixing ceramic glazed tile (300mm x 200mm) of approved size, make , shade & quality to dado of toilet & sills of windows over a base course of 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, testing charges,T & P, lead, royalty, tax, curing etc. complete in all respects as per direction of Engineer / .-in-charge.	117.00	Sqm.		
9	Providing & Laying minimum 20mm thick black granite stone to kitchen platform, laid over built in RCC kitchen platform with minimum cement mortar 15mm thick of proporation (1 cement : 3 coarse sand). The joints shall be filled with cement slurry mixed with required pigment to match the colour of granite including all labour, material, tax, lead, T&P ,curing etc. Complete in all respects as per direction of Engineer / .-in-charge.	9.00	Sqm		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
10	Providing & laying teracota tiles of size 300mm x 300mm of approved make and colour, laid to pattern as per drawing, set in cement mortar 1:4 mix, 20mm thk.	12.00	Sqm		
11	Providing 15mm thick cement plaster in cement sand mortar in proportion (1cement:6 fine sand) by volume over inside surface of the building after racking out of joints, roughening the concrete surface, filling porturated surface , fixing wiremesh 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, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.	1,215.00	Sqm.		
12	Providing 12 mm thick cement plaster in cement sand mortar in proportion (1cement:4 fine sand) by volume over ceiling surface of roof ,soffit & sides of stair ,beams, chajja etc. after roughening the surface by proper chisseling ,surface preparation, filling porturated surface etc. cost includes of all materials, labour,lead, royalty, T & P,scaffolding , curing, tax, testing charges etc. complete in all respect as per the direction of Engineer . -in -charge.	730.00	Sqm.		
13	Cement plaster in two coats-18mm CP in two coats under layer 12mm CP 1:5 (1cement: 5 coarse sand) & top layer 6mm thick CP (1:3) (1cement : 3 coarse sand) finished rough with sponge after racking out of joints, roughening the concrete surface, filling porturated surface , fixing wiremesh 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, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.	965.00	Sqm.		
14	Providing & fixing in position well dressed naturally well seasoned sal wood of finished cross section (65 x 125mm), rebated frame to door including 2 coats of hot bitumen applied to rear of frame in contact of masonry / concrete surface complete in all respects including 2 coats of synthetic enamel paint over 2 coat of wood primer both of approved brand & shade cost includes of all materials, labour,lead, royalty,T & P, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.	1.10	Cum		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
15	Providing & fixing in position 35 mm thick ISI marked factory made solid core block board flush door confirming to IS:2202, PT-1 [hot pressed] shutter of century or green make & quality bounded with phenol formaldehyde synthetic resin ,teak veneered on both faces 3mm ply veneering with vertical grains or cross bands ,leaping around complete as specified with lamination of 1.50 mm thick of approved shade , make & as directed cost includes of all materials, labour,lead, royalty, T & P, tax, testing charges etc. complete in all respect as per the direction of Engineer / .in -charge. (Hardware fittings shall be measured separately)	33.50	Sqm.		
16	Providing and fixing glazed doors with teak wood frame of 65mm x 125mm in location and position shown to concrete/brick surfaces in perfect line, level and plumb including minor modification as required and provision of 6nos. M.S. holdfast 25x4x230mm per frame grouted in situ in PCC M15 blocks. The shutters to be made with teak wood sections of 40mm x 125mm with 8mm float glass. Rate to include hardware like brass hinges, tower bolts etc., including locks and handles. All wooden sections to be polished, finished in melamine coating.	16.00	Sqm.		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
17	Fabricating, supplying and installing in position aluminum Sliding / Fixed glazing windows, and ventilators etc as described below using appropriately designed sections of aluminum extruded from aluminum alloy 6063 T5 or approved equivalent, of required size and profile for outer frame, shutter frames, mullions etc. aluminum sections to be anodized or polyester powder coated to required colour and shade including building into opening through polyester powder coated pressed meter channels and galvanized steel brackets, providing and installing 5.5 mm thick clear float glass with snap in beading and neoprene / EDPM gaskets of size and profile and at locations as called for, providing and fixing hardware items of approved quality and design, expansion bolts, cleats and clamps, bolts, nuts, screws, rivets and other accessories as required and all incidents complete including caulking around frames with polysulphide sealant of approved make, prepared and applied strictly in accordance with manufacturers recommendations over appropriate primer, back up material, marking tapes etc complete. (rate shall include all hinges, stays, window handles, floor springs, pivots, door handles, locks and also other hardware items, but excluding glass which will be paid for seperately.	115.00	Sqm		
18	Providing, Supplying & fixing M.S. grills made of M.S. flat of size 19/ 25 x 6 mm & 16mm ,12mm / 8mm square bar as per detailed drawing & design in windows or in other location as required, including painting 2 coats of synthetic enamel paint of approved shade & brand over 2 coats of zinc chromate / metal primer complete in all respects with all labour, material ,fabrication charge, lead, royalty, tax etc. as per direction of Engineer.-in-charge.	2,105.00	Kg.		
19	Providing ,Supplying & fixing M.S. Clamps to door frames 225mm long made of 25mm x 6mm flats & bifurcated ,fixed in cement concrete [1cement:2 coarse sand:4 coarse aggregate 20mm nominal size] including painting 2 coats of synthetic enamel paint of approved shade & brand over 2 coats of zinc chromate / metal primer complete in all respects with all labour, material ,tax,fabrication charge, lead, royalty etc. as per direction of Engineer / .-in-charge.	85.00	No		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
20	Providing ,Supplying & fixing Fan hook to ceiling with 16mm M.S. Rod type I, bent to shape with hooked ends in RCC Slab during laying with 24 gauge black annealed wire painting exposed surface of loop 2 coats of synthetic enamel paint of approved shade & brand over 2 coats of zinc chromate / metal primer complete in all respects with all labour,tax, material , lead, royalty etc. as per direction of Engineer .-in-charge.	35.00	No		
21	Providing ,Supplying & fixing on wall face unplasticised -Rigid PVC rain water pipes conforming to IS :13592 type A including jointing with seal ring conforming to IS :5382 leaving 10mm gap for thermal expansion 110mm dia single socketed pipes of approved make & quality including shoe,bends, grating,ears etc. embaded in masonry /fixed in walls as directed complete in all respects with all labour,tax, material , lead, royalty, T&P etc. as per direction of Engineer . -in-charge.	120.00	Rmt.		
22	Supplying, fitting and fixing of Stainless steel of 304 grade in hand railing using 50mm dia of 2mm thick circular pipe with Balustrade of size 32mm x 32mm x 2mm @ 0.90mtr. C/C and stainless square pipe bracing of size 32mm x 32mm x 2mm in 3 rows 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.	20.00	Rmt.		
23	All fittings shall be stainless steel matt finish (304 grade ANSI) of approved quality & confirming to latest IS specification ,screws should be cadmium plated & samples should approved by Engineer/Architect before fitting.				
23	Providing ,Supplying & fixing Hardware fittings of approved make & quality to doors [with screws] complete in all respects with all labour, material , lead, royalty, tax , T&P etc. as per direction of Engineer.-in-charge.				
23.1	Stainless steel Butt Hinges. (size 100 x 75x 10mm)	72.00	No		
23.2	Stainless steel matt finish Tower Bolt.[full covered] [225mm long x 10mm dia]	22.00	No		
23.3	Stainless steel matt finish Aldrops.[300mm long x 18mm dia]	6.00	No		
23.4	Stainless steel matt finish handle	24.00	No		
23.5	Heavy Type Door stopper (Stainless steel)	20.00	No		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
23.6	Hydraulic Door closer.	7.00	No		
23.7	Mortice Lock (SS finish) with handles.[7 levers]	20.00	No		
23.8	Brass oxidised decorative Knob heavy type.	20.00	No		
23.9	Double action floor spring. (Dorma/Hafele/Neki)	8.00	No		
23.10	Cylindrical lock SS matt finish	6.00	No		
24	Removing white or colour wash/ distemper water proofing cement paint by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1,200.00	Sqm		
25	Providing & Painting with acrylic distemper of approved shade & make to get an even shade over plastered wall & ceilings of inside surface of building 2 coats over 1 coat of primer cost includes all material ,scaffolding charges, lead,T&P,tax, Labour, royalty etc. making good the damages complete in all respect as per the direction of the Engineer . -in-charge.	2,665.00	Sqm		
26	Finishing wall surface of walls with Acrylic wall putty (Water based) of approved make and finished smooth and even surface to receive painting including cost of scaffolding staging charges with cost of all materials taxes, labour T&P etc complete	2,665.00	Sqm		
27	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 waterproofing cement paint @ 2.20Kg/ 10sqm to give an even shade over plastered wall of outside surface of building cost includes all material , scaffolding charges, lead,tax,T&P, Labour, royalty,curing etc., complete in all respect making good the damages as per the direction of the Engineer. -in-charge.	970.00	Sqm		
28	Painting Two coats of synthetic enamel paint of approved brand & shade to give an even shade over one coat of wood/ metal primer as per manufacture's specification after preparation of surface by sand paper making good surface including the labour, materials, tax, T&P,lead,scaffolding ,royalty etc. complete in all respect as per the direction of Engineer.-in -charge.	155.00	Sqm		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
29	<p>Roof Tiling:-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.</p>				
30	<p>Structural Glazing:Providing and Fixing Structural Glazing fabricated from roll formed sections made of galvanized steel colour coated/power coated (Base Steel as per IS 513 'D' quality galvanized thickness of 0.72mm. The Glass holding section made of 304 grade stainless steel of 0.6mm thick. CRCA sections with Polyurethane Coating are to be used as stiffeners inside the CCS section as per the design requirement. Design calculations are to be made to suit wind pressures as given in IS 875.</p> <p>Paint Specifications :</p> <p>Coated Sections should be with Primer Coat of Epoxy Primer of 5-7 microns thick, finish painted with a Polyester Paint of 12-16 microns thick and back coated with Alkyd backer of 5-7 microns, or Powder Coated with pure Polyester Powder up to 50-60 microns thick</p> <p>Dimensions of Sections :</p> <p>The sections are to be of 33x58 mm or 50x100 mm for frame verticals, 33x59 mm for frame horizontals, section for reinforcement should be of 31x55 mm / 48x98 mm (CRCA). Glass holding section should be of 32.5x37 mm for top and bottom grids, in between should be of 32.5x18 mm.</p> <p>Glazing details:- Reflective glass of 5/6mm thick of ocean blue/ green / any available approved colour to be fixed with requisite size. matching to the frame grid.</p> <p>Fixing Details :</p> <p>The sections are to be cut to length, joined by means of powder coated CRCA brackets.</p> <p>The above Frame should be fixed to brick/ concrete masonry by using Nylon self-expanding caps and driving MS electroplated 80mm long screws into the caps through frames.</p>	460.00	Sqm		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
31	Providing & applying water proofing treatment to the chajja over a clean ,levelled surface free from loose foreign material, oil,grease etc. by help of wire bush upto the satisfaction of Enginner /Consultant, then mixing Dr FIXIT PIDIFIN 2K powder with liquid in ratio (2:1) by mechanical mixer to get a consistant mix. The surface to be moistened (fully saturated) before application of DR.FIXIT PIDIFIN 2K . Pidicrete MPB applied as bond coat as per the manufacture's specification before application of PIDIFIN 2K & apply the 1st coat of mixed DR. FIXIT PIDIFIN 2K on the surface & allow dry for 4-6 hrs . Then 2nd coat to be applied perpendicular to the 1st coat. After application of 2nd coat the plastering 12mm thick (1:4) with Pidiproof LW @ 2% to be provided over 2nd coat of PIDIFIN 2K cost includes all material ,labour,tax,lead,T&P etc. complete in all respects as per consultant in charge. at any location . All as per manufacture's specification & as directed by the Engineer in charge. A guarentee of 10 years to be provided by the contractor for the waterproofing work.	635.00	Sqm		
32	Providing & Making Plinth Protection all round the building with bricks of class designation 75 laid on edge in cement mortar 1:6 (1 cement : 6 coarse sand) with 12mm thick bed of cement mortar 1:6 (1 cement: 6 coarse sand) over 75mm thick bed of dry brick aggregates 40mm nominal size well rammed & consolidated & grouted with fine sand & the top of the bricks pointed with cement mortar 1:3 (1 cement : 3 fine sand) including cost of all materials, labour, lead, royalty, tax, T&P , curing etc.complete in all respects as per direction of Engineer /. in charge.	145.00	Sqm		
33	Taking out doors, windows, fixed ventilators and clerestory windows (steel or wood) shutter at all heights including chowkath/ excluding as required, architrave, holdfast, etc. complete & stacking within 50 mtr lead. Of area 3sqm & below.	25.00	No		
34	Demolishing Brick work at all heights including stacking of servicable material and disposal of unserviceable material with in 50 mtre lead.	5.00	Cum		
35	Demolishing RCC work including stacking of steel bars and disposal of unservicable material within 50mtr lead.	1.00	Cum		
36	Dismantling of existing floor tile & dado tile with base course of cement mortar in toilet & stacking in requisite place for reuse & disposal of debris within 50mtr lead.	45.00	Sqm		

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
37	Dismantling of AS flooring in any thick ness & all proparation including removal of debris within 50mtr lead	200.00	Sqm		
38	Dismantling of old cement plaster/ skirting racking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50mtr lead.	55.00	Sqm		
39	Taking out of existing watersupply lines including fittings, sanitary pipes including fittings, Watersupply fittings, valves, sanitary wares such as Pan, wash basins etc. stacking of servciable material in requisite place & disposal of debris within 50mtr lead cost includes excavation, refilling, braking the lead caulked joint, melting of lead, making into blocks, cutting chase in wall & making good the same.	1.00	Set		
40	Making dowels in the exising brick masonry / stone masonry of minimum 250mm wide & 200mm depth, removal of plaster, cutting groves in the existing wall alternate course at any location, removal of debris within 50mtr lead.	85.00	Mtr		
41	Anchoring in Cement concrete /RCC/ Brick masonry with following dia steel bars and as per the manufacture's specification & chemicals. (Make- Fisher/ Hilti) cost includes all material,tools plants, scaffolding, tax, lead etc. to complete the work in all respects.				
41.1	8mm dia	90.00	No		
41.2	12mm dia	15.00	No		
41.3	16mm dia	22.00	No		
42	Steel work welded in builtup sections/ framed work including cutting , hoisting, fixing in position & applying a priming of approved steel primer using strucural steel etc. as required.				
42.1	In stringers, treads, landings, ets. Of stair case including use of cheqaured plate wherever required all complete.	66.00	Kg		
42.2	In gratings, frames, guard bars, ladder, railing, bracket, gates and similar work.	58.00	Kg		
	Total				

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SECTION 2 .INTERNAL SANITARY & PLUMBING WORKS.

Section.2.A.Sanitary Fittings & Fixtures.

All pipe lines inside the toilets shall be concealed into wall or floor. The fitting shall be used to suit concealed work, unless otherwise specified .The rates quoted shall include the the cost of supplying loading, unloading, storing,handling and fixing the following fittings including the cost of all necessary pipe connection, cutting and fixing all bracktes to walls, supplying, testing and fixing sanitary fittings, scaffolding charges and making good the damages. All fittings shall be fixed and supplied best quality as mentioned from the consultant & Engineer before use.

Providing, Supplying & Fixing European type water closet with plastic seat & lid I.S.I. Marked (confirming to IS : 7231) of approved 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. in charge.

1	Providing, Supplying & Fixing Indin type water closet I.S.I. Marked (confirming to IS : 7231) of approved 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. in charge. White vitreous china orissa pattern WC pan size (580x440mm) with integral type footrest.	2.00	No		
2	Providing & fixing 460 mm dia (approximately) ISI marked counter top white vitrious ware wash basin of approved make including waste pipe CP waste coupling with fittings 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. in charge.	2.00	No		
		7.00	No		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
3	Providing & fixing 18mm thick granite finished over precast & pre-cured RCC counter top with granite finish on top & sides matching with floor for above wash hand basin including steel & shuttering as required, to be fixed along walls after cutting grooves & grouting in cement sand mortar [1:3] & 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. in charge.	4.00	Sqm		
4	Providing & fixing 5.5mm thick 55 x 40 cm beveled edged sheet glass mirror of approved make with necessary asbestos backing, CP mirror screws & 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 / in charge.	7.00	No		
5	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 : Kitchen sink with drain board 510mm x 1040mm bowl depth 200mm.	1	No		
6	Supplying & Fixing magnum urinal of Parryware make size (590 mm x 400mm x 380 mm) with concealed "Z" brackets, automatic flushing cistern with fittings, CP brass spreader with brass union & clamps (all in CP brass), CP bottle trap 32mm dia CP (Jaquar), waste coupling (Jaquar) CP with waste fittings, CI trap with outlet grating and other coupling in CP brass including painting of fittings and brackets cutting & making good the damages to walls & floors. Fixed in the range of three & connected to one no of 10 ltrs. capacity PVC automatic flushing cistern including cost of all materials, labour, T&P, lead, royalty etc. complete in all respects as per direction of Engineer.	2	No		

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
7	Providing urinal partition for magnum urinal height 810mm , hang on wall with key hole slots screwed to wall at bottom & making good the damages caused.	4	No		
8	Supplying & Fixing Bib cock of Jaquar continental series (Cat no- 037) CP brass including making good the damages including removing the existing fittings	8	No		
9	Supplying & Fixing Pillar cock of Jaquar continental series (Cat no- 017) CP brass including making good the damages including removing the existing fittings	5	No		
10	Supplying & Fixing Pillar cock long neck with aerator of Jaquar continental series (Cat no- 021) CP brass including making good the damages including removing the existing fittings	2	No		
11	Supplying & Fixing long body Bib cock of Jaquar continental series (Cat no- 039) CP brass including making good the damages including removing the existing fittings	5	No		
12	Supplying & Fixing stop cock of Jaquar continental series (Cat no- 051/ 053/ 055/ 59) as required CP brass including making good the damages including removing the existing fittings	16	No		
13	Supplying & Fixing towel rail - 18" of Jaquar continental series (Cat no- 1111) CP brass including making good the damages including removing the existing fittings	8	No		
14	Supplying & Fixing towel ring of Jaquar continental series (Cat no- 1121) CP brass including making good the damages including removing the existing fittings	8	No		
15	Supplying & Fixing soap dish of Jaquar continental series Cat no- 1131 CP brass including making good the damages including removing the existing fittings	13	No		
16	Supplying & Fixing robe hook of Jaquar continental series (Cat no- 1191) CP brass including making good the damages including removing the existing fittings	4	No		
17	Supplying & Fixing Glass shelf 22" of Jaquar continental series (Cat no- 1171) CP brass including making good the damages including removing the existing fittings	5	No		
18	Supplying & Fixing Corner Glass shelf with bracket 22" of Jaquar continental series (Cat no- 1173) CP brass including making good the damages including removing the existing fittings	5	No		

Total

No of corrections:-

No of interpolations:-

No of overwritings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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Section.2.B.Water supply pipes & Fittings.

All pipe lines shall be concealed in the wall/floor . All water supply pipes shall be UPVC Schedule 80 R confirming to ASTM D 1785 , white colour & fitting must be U-PVC white colour SCH-80 with solvent cement joint confirming to ASTM D 2467 . All pipes shall be laid as per specification and drawing . The rates quoted shall include cost of cutting holes and chasing through floors and walls and repairing the same and necessary scaffolding charges etc. as may be necessary. The rate quoted shall include for cutting the pipes to required length, making thread, cost of hangers and clamps earth work wherever necessary . The testing of the pipe lines after erection as per specification etc. complete in all respect . No extra payment shall be entertained on above accounts .All brass chromium plated fittings should be of best quality as mentioned in the specification .

1	Supplying & fixing of U-PVC plumbing pipe of ASTM D 1785 Schedule 80 white colour (Heavy Pressure pipe) of brand Finolex/Supreme/ Prince make with all necessary U-PVC white fittings (Elbow, Tee, Coupler, elbow 45 deg, Cross Tee, Reducer etc) with solvent cement joint confirming to ASTM D 2467 inside or outside the wall surface or any where as per requirement and threading to be done as per IS 554 (BSPT. Thread) as per manufacturer specification. This rate includes all labour cost for laying, grouting, sealing of wall with cement : mortar 1:4, to make good the wall or floor and jointing material of pipe including socket. This rate includes cost of lead, lift, transportation, ascent, descent, royalty, taxes, complete in all respect as per direction of Engineer-in-charge.				
1.1	50mm (OD)	110.00	Rmt.		
1.2	40mm (OD)	77.00	Rmt.		
1.3	32mm (OD)	63.00	Rmt.		
1.4	25mm (OD)	40.00	Rmt.		
1.5	20mm (OD)	53.00	Rmt.		
2	Supplying & Fixing Gun metal valve, heavy type of Leader brand & 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 . in charge.				

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

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Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
2.1	50mm	2.00	No		
2.2	40mm	2.00	No		
3	Supplying & Fixing 15mm dia PVC connecting pipe with brass coupling at both end ,heavy type of approved make & quality & making good the damages as per drawing including cost of all materials, labour, lead,tax, T&P , royalty etc.complete in all respects as per direction of Engineer /.in charge.				
		7.00	No		
4	Supplying & Fixing at any location Overhead tank (Sintex) with cover 2000ltr capacity with overflow pipe, necessary inlet and out let connections as required , making good the damages complete in all respects as per the direction of Engg-in-charge.				
		2.00			
Total					

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
Section.2.C.Soil waste pipes & Fittings.					
1	Supplying & laying of the PVC (SWR) and rigid PVC soil waste and vent pipes with all necessary PVC fittings as per IS 14735 such as bend, Tee, Coupler,Y, Pipe clip,P trap, Reducing Tee, Doble plain tee etc. 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 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's-in-charge is inclusive in the rate. The rate also includes all labour, material, transportation, lead, lift, ascent, descent, taxes, royalty etc.				
1.1	160mm dia PVC (SWR) pipe class "A" (with wall thickness of 2.70mm to 3.20mm)	110.00	Mtr		
1.2	110 mm dia PVC (SWR) pipe Class 'A' (with wall thick of 2.20 mm to 2.70 mm)	57.00	Mtr		
1.3	75 mm dia PVC (SWR) Pipe Class 'A' (wall thickness of 1.8 mm to 2.20 mm).	28.00	Mtr		
2	Providing and laying 150 mm thick cement concrete 1:4:8 (1 cement:4 fine sand:8 graded stone aggregate 40mm nominal size) around the PVC SWR pipes including 150 mm thick bed concrete as per approved design.				
2.1	160mm dia	55	Mtr		
2.2	110mm dia	40	Mtr		
2.3	75mm dia	25	Mtr		
	Total				

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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SECTION .3. EXTERNAL SANITARY & PLUMBING WORKS.

Section .3.A.Under ground sewer ,Inspection chamber, Septic tank, soak pit, Rechargeable pit.

- 1 Constructing inspection pits of inside measurements 600mm*600mm upto 1 Mtr. (depth) with 230mm thick 1st class brick work in C.M. (1:6) in all sides, bottom of the pit consisting of 100mm thick cement concrete (1:3:6) with stone chips over a layer of brick flat soling 12mm thick (1:4) cement plaster to inside walls and outside upto G.L. & 19mm thick cement plaster (1:4) to bottom of the pit providing necessary invert with cement concrete (1:2:4) with stone chips neat cement finishing to entire interior surfaces to the top of the pit covered with 100mm thick RCC slab (1:2:4) with stone chips and necessary reinforcement upto 1% and shuttering including 6mm thick (1:4) cement plaster in all externalsurface of the slab with necessary fittings, earth work in excavation in all sorts of soil filling the sites of the pit with earth and removing spoils after work complete in all respect with 50Kg weight C.I. manhole cover and frames.

13.00 No.

- 2 Construction of septic tank of 50 users (4.7m x 1.9m x 1.725 m) as per approved drawing with 500mm, 375mm & 250mm thick 1st class brick work (1:6) in cement mortar bottom of the tank consisting of 100mm thick cement concrete (1:3:6) with brick flat stone chips over a layer of soling with 125mm thick partition wall with cement mortar (1:3) the top of the tank cover covered with 125mm thick RCC slab (1:1.5:3) with stone chips and necessary reinforcement and shuttering including 2 nos. 50 Kg wt. C.I. double water seal manhole cover with frames fixed with the slab, 19mm with cement plater (1:4) with neat cement finish to the internal surface and 12mm thick cement plaster (1:4) to outside wall upto 200mm below G.L.

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
	and 6mm thick cement plaster (1:4) on top of the tank and floor finished with 25mm thick gray artificial stone including supply of all necessary specials, fitting S.W. Tee C.I. step etc. including excavation earth in all sorts of soil, shoring bailing out water as necessary, ramming, dressing the beds and refilling the sides of the tank with earth removal spoils and filling up the removal spoils and filling up the chamber with clear water after removing foreign materials from the chamber and including constructing attached inspection pit as per approved, drawing & connecting all necessary pipe joints etc. complete in all respect as directed internal plaster works and artificial stone flooring is to be done with admixture or water proofing compound @ 5% by weight of cement.				
3	Constructing soak pit of internal diameter 1.5m and depth 2.0m below the invert level of the inlet pipe after necessary earth excavation with honeycomb brickwork lining along II class K.B. bricks over a backing of coarse aggregate of minimum size 75mm with upper portion of the lining up to the inlet level of height at least 450mm and lower portion of 200mm above the bottom level made with solid brick masonry with CM (1:6), filled with jhama brick ballast of size 50mm up to 600mm below the inlet pipe and rest with brick bats, covered with RCC slab of 100mm thick including the cost of RCC support for the inlet pipe, complete in all respect as per the direction of the Engineer in charge.	1.00	No.		
4	Rainwater harvesting by constructing recharging pit of internal dia 2.0m and depth 3.0m below the invert level of the inlet pipe after necessary earth excavation with honey comb brick work lining along II class K.B. bricks over a bed concrete of 100mm thick in proportion 1:4:8 only under brick work portion upto inlet level and from inlet level up to 300mm above ground level solid brick masonry work in 1:6 cement mortar, the entire pit should be filled up upto inlet level by 1/3rd coal, 1/3rd by stone chips and remaining 1/3rd by sand. The pit should be covered with RCC slab at 125mm thick. The upper portion of pit (i.e. solid wall portion) to be plastered	1.00	No.		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
	in cement mortar 1:6. Also from pit bottom level to another 3m depth 50mm perforated G.I. pipe is to be inserted to take the water into a considerable depth complete in all respect including labour, conveyance, materials etc. The item includes supply and laying of PVC pipe of 100mm dia as connecting pipe to recharging pit with 1:3:6 cement concrete and also an inspection chamber should be there with provision for cleaning the impurities and allow the clean water only to the recharging pit.				
	Providing necessary connection with the existing sewerage line to the new sewerage line of the building by necessary earth work in excavation, refilling & jointing the sewerage pipe of the building to the sewerage line with all fittings cost including all material, labour, T& P etc. complete in all respects.	1.00	No		
	Total	1.00	Job		

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
Section .3.B.Under ground water ,external plumbing work.					
1	Providing , Supplying & fixing gun metal high pressure fittings of approved make & quality including cost of all materials, labour, lead, tax, T&P, royalty etc.complete in all respects as per direction of Engineer . in charge.				
1.1	40mm dia horizontal check valve.	1.00	No.		
1.2	40mm dia vertical check valve.	1.00	No.		
2	Providing & fixing in position 3.00 meter long MS Ladder fabricated in two nos (2) of MS angle 55x55x6mm ,two (2) nos of 12mm dia rods placed at a distance of 200mm apart complete with all necessary civil works , nuts, bolts, washer, flange etc. making good the damages all as per drawing including painting 2 coats of enamel paint over 1 coat of metal primer cost of all materials, labour, lead, fabrication charge, tax, curing,royalty etc.complete in all respects as per direction of Engineer. in charge.	1.00	No.		
3	Supplying and fixing U-PVC pipe insert for making connection with under ground water storage sump by providing necessary GI Fittings such as short piece socket, flanges of required diameter for tank water feed suction, over flow vent lines complete with necessary brass mosquito proof coupling to be fixed at the time of construction of tank as per drawing to 40mm dia. pipes (1 Nos,) cost includes all material, labour, tax.lead, T&P etc. complete in all respects as per the direction of . / Engineer in charge.	1.00	No.		
4	Supplying,fitting and fixing complete gun metal high pressure fittings of approved type and brand cost includes all material, labour, tax.lead, T&P etc. complete in all respects as per the direction of . / Engineer in charge.	1.00	No.		
4.1	40mm dia G.M. foot and check valve.	1.00	No.		
	Total				

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
Section 3.C. Underground sump (RCC), Overhead tank (RCC) & pump set.					
1	Earth work in trenches and over areas for foundation of surface drain in all kinds of soil except rock including shoring, strutting, dewatering etc. complete as per direction of Engineer.	36	Cum.		
2	Supplying and filling with excavated earth in layer not exceeding 15cm in depth and consolidating each and deposited layer by ramming and watering. (measured consolidated volume only).	5	Cum.		
3	Providing and laying cement concrete with graded stone aggregate of 40mm nominal size to sub floor including cost of curing, centering and shuttering and conveyance of all labour and materials etc. complete in all respect. (1:4:8) (1 cement : 4 sand : 8 graded stone aggregate)	2	Cum.		
4	Providing R.C.C. in proportion 1:1.5:3 by volume with 20mm size crusher broken down graded granite chips and graded clean and sharp sand including hoisting and laying concrete by suitable means, including cost and conveyance, royalties and taxes of all materials and labour required for the work etc. complete in all respect but excluding cost of reinforced steel rod and cost of labour charges for bending, binding and tying the grills hoisting of steel rod etc. in all the following items. (Excluding cost of centering & shuttering also).	26	Cum.		
5	Providing high strength deformed bars for reinforced cement concrete work including distribution bars, stirrups, binders etc. including initial straightening, removal of loose rust (If necessary cutting to requisite length, hooking, bending and binding to correct shape placing in proper position and binding with 20 gauge black annealed wire at every intersection complete as per drawing and direction (Payment to be made on actual quantities of reinforcement used in the work as per drawing and direction, weight calculated as per standard tables with three places of decimal and no extra for wastage unnecessary overlaps or rolling margin shall be paid for, weight of binding wire shall not be measured its cost being included in the rate of reinforcement).	2.5	M.T.		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
6	Providing and fixing rigid smooth centering and shuttering made out of R.C.C. shuttering ply conforming to I.S. : 4990 or marine ply conforming to I.S. - 710 including starting, propping laying of water proof paper or plastic sheet to the horizontal surfac to make water tight shuttering and also removal of form work including the cost of all labour, materials. (Only the area in contact with concrete will be measured).	215	Sqm.		
7	Providing and laying 12mm thick cement plaster to surface drains at all levels with cement mortar (1 :3) (1 cement : 3 coarse sand) finished with a floating coat of neat cement including rounding of junctions, with floor including deep chipping to concrete base, curing etc. complete.	185	Sqm.		
8	Providing and laying cement based water proofing treatment to the R.C.C. floor, wall after cleaning the surface, applying water proofing solution, the rate to include cost of all labour material, conveyance taxes, royalties and T&P etc. complete in all respect as per the approved drawing and direction of the 's Engineer, measurement shall be taken for actual area covered by the treatment.	110	Sqm.		
9	Providing and fixing 500mm dia CI manhole cover and frame on the underground water sump, including painting with 2 coats of black paint including finishing with the slab.	4	No.		
10	Supplying and fixing complete in operational conditions, including necessary jointing and coupling monoblock pump and motor of specified H.P. Kirloskar/ G.E.C./ Siemens/ Crompton or equipvalent complete with 40mm x 40mm suction and delivery, motor starter and suitable for lifting water to a height of 30'-0" approx. complete with connections and accessories etc. complete with a guarantee of one year. 1HP capacity	1.00	Set.		
Total					

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
SECTION -4, SURFACE DRAIN					
1	Dismantling the existing drain including brick work both sides, plaster with punning ,plain cement concrete , drain cover, disposal of debris within 50mtr lead, levelling the area with earth & compacting the same ,stacking the servicable material for reuse. jointing the new drain with existing drain in proper slope.	25.00	Mtr		
1	Earth work in excavation in foundation trenches in hard soils within initial lift 1.50 mt including breaking clods, rough dressing to the sides of trench , getting out the excavated soil & disposal of surplus excavated soil in layers not exceeding 0.20 mt within 50mtr of lead including cost of dewatering, shoring, labour, T & P, tax etc.complete in all respect as per the direction of the Engineer .-in-charge.	34.00	Cum		
2	Back Filling with selected excavated earth obtained from earth work in excavation, including ramming after watering for compacting, laying in layers not exceeding 20cm including labour,tax, T&P etc. complete the work in all respect as per the direction of the Engineer .-in-charge.	5.00	Cum		
3	Filling the foundation & plinth with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer .-in-charge.	8.00	Cum		
4	Providing and Laying of Plain Cement Concrete of proportion (1cement: 4 coarse sand: 8 graded metal 40mm down size) by volume in foundation & sub-floor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead,royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	9.00	Cum		

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
5	Providing and Laying of Plain Cement Concrete of proportion (1cement: 2 coarse sand: 4 graded metal 12.5mm down size) by volume in drain floors including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead,royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	4.00	Cum		
6	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks with tolerance +/-8% having crushing strength not less than 75Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) by volume in foundation & plinth including cost of all materials, labour, testing charges of material, lead, royalty, curing,pointing, T&P etc. complete in all respect as per the direction of Engineer .-in-charge	21.00	Cum		
7	Providing 15mm thick cement plaster in cement sand mortar in proporation (1cement:6 fine sand) by volume & neat cement punning after racking out of joints, roughening the concrete surface, filling porturated surface , cost includes of all materials, labour,lead, royalty, T & P, scaffolding, curing, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.	126.00	Sqm.		
8	Providing & laying 75mm thk precast, pre-cured R.C.C. slab in proporation (1 cement: 1 1/ 2coarse sand : 3 graded coarse aggregates 12.5 mm nominal size) as drain cover using Crusher Broken Hard Granite chips of size 12.5 mm down & coarse sand including finishing top & sides with cement plaster 6mm thick ,steel about 0.80% of concrete volume ,shuttering cost of all materials, labour, lead,royalty, tax, scaffolding , mixing by mechanical mixer, hoisting, laying, compacting by needle & plate vibrator as required , fixing with cement mortar (1cement:4 fine sand) sealing the joints including pointing in cement mortar (1 cement: 2 sand) concreting by suitable means and watering for curing etc. complete in all respects as per the direction of Engineer.-in-charge.	63.00	Sqm.		
Total					

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
SECTION -5, AMPHITHEATRE DEVELOPMENT					
1	Excavation in all types of soils soft or hard, including soft or hard murrum, soft rock, black cotton soil as per specification including shoring, strutting, bailing, pumping out water, backfilling in pits, trenches or in Plinth as directed with selected excavated soil in 200mm thick layers, rate also to include removal of soling/metalling and stacking the excavated material watering, spreading, compacting ramming & backfilling and carting & spreading surplus earth within or outside the premises as directed. no extra will be payable on account of lead.	25.00	Cum		
2	Back filling around foundations and plinths to proper grade and level with selected excavated soil including watering and ramming in layers of 25 cm. thickness to 90% max dry density by manual/ mechanical means in saturated condition, dressing etc. complete including transportation.	12.00	Cum		
3	Filling the foundation & plinth with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer . -in-charge.	34.00	Cum		
4	Providing and Laying of Plain Cement Concrete of proportion (1cement: 3coarse sand: 6 graded metal 40mm down size) by volume in foundation & sub-floor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead,royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	13.00	Cum		
5	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks with tolerance +/-8% having crushing strength not less than 75Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) by volume in foundation & plinth including cost of all materials, labour, testing charges of material, lead, royalty, curing,pointing, T&P etc. complete in all respect as per the direction of Engineer . -in-charge	22.00	Cum		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
11	Providing 15mm thick cement plaster in cement sand mortar in proportion (1cement:6 fine sand) by volume & neat cement punning after racking out of joints, roughening the concrete surface, filling porturated surface , cost includes of all materials, labour,lead, royalty, T & P, scaffolding, curing, tax, testing charges etc. complete in all respect as per the direction of Engineer / .-in -charge.	25.00	Sqm.		
12	Supplying & Fixing external paving tile of Ultra/Eurocon make of approved pattern over base course of 15mm thick (average) cement mortar (1:4) , pointing the joints with matched pigment, laying in proper level.	70.00	Sqm.		
	Total				

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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GENERAL SUMMARY (PART-I)

SECTION-1.A, FOUNDATION & PLINTH. Rs

SECTION-1.B, SUPERSTRUCTURE. Rs

SECTION -2 ,INTERNAL SANITARY & PLUMBING WORKS.

Section.2.A.Sanitary Fittings & Fixtures. Rs

Section.2.B.Water supply pipes & Fittings. Rs

Section.2.C.Soil waste pipes & Fittings. Rs

SECTION -3,EXTERNAL SANITARY & PLUMBING WORKS.

Section .3.A.Under ground sewer ,Inspection chamber, Septic tank, soak pit, Rechar Rs

Section .3.B.Under ground water ,external plumbing work. Rs

Section 3.C. Undergroung sump (RCC), Overhead tank (RCC) & pump set. Rs

SECTION -4, DRAIN Rs

SECTION -5, AMPHITHEATRE DEVELOPMENT Rs

GRAND TOTAL Rs

IN WORDS:-

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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PART-II, BOUNDARY WALL , LANDSCAPE & HORTICULTURE, SITE DEVELOPMENT & PATH WAYS.
SECTION-1, BOUNDARY WALL & GRILLED GATE

1	Excavation in all types of soils soft or hard, including soft or hard murrum, soft rock, black cotton soil as per specification including shoring, strutting, bailing, pumping out water, backfilling in pits, trenches or in Plinth as directed with selected excavated soil in 200mm thick layers, rate also to include removal of soling/metalling and stacking the excavated material watering, spreading, compacting ramming & backfilling and carting & spreading surplus earth within or outside the premises as directed. no extra will be payable on account of lead.	105.00	Cum		
2	Back filling around foundations and plinths to proper grade and level with selected excavated soil including watering and ramming in layers of 25 cm.thickness to 90% max dry density by manual/ mechanical means in saturated condition, dressing etc. complete including transportation.	70.00	Cum		
3	Filling the foundation with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer . -in-charge.	26.00	Cum		
4	Providing and Laying of Plain Cement Concrete of proportion (1cement: 4 coarse sand: 8 graded metal 40mm down size) by volume in foundation & sub-floor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead,royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	26.00	Cum		

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
5	Providing & constructing K.B. Brick masonry using Locally available K.B. bricks with tolerance +/-8% having crushing strength not less than 75Kg/sqcm in cement sand mortar (1cement: 6 coarse sand) by volume in foundation, plinth, superstructure upto 1.5mt (approx) height from Natural Ground level including cost of all materials, labour, testing charges of material, lead, royalty, curing,pointing, T&P etc. complete in all respect as per the direction of Engineer . -in-charge	90.00	Cum		
6	Providing, mixing and placing in position and compacting Reinforced cement concrete of design mix M - 25 conforming to grade controlled concrete of approved design as per IS 456 and as per approved mix design,as per the drawings using graded stone aggregates of nominal size 20 MM , including vibrating compacting, curing, hacking the surface to receive plaster complete inclusive of all labour/materials and as directed by Engineer-in -charge but excluding the cost of providing of steel formwork/ shuttering and steel reinforcement .	4.00	Cum		
7	Providing and fixing rigid smooth centering and shuttering made out of RCC shuttering ply conforming to I.S. : 4990-1998 or marine ply conforming to I.S. - 710 including starting, proping laying of water proof paper or plastic sheet to the horizontal surface to make water tight shuttering and also removal of form work including the cost of all labour, materials. (Only the area in contact with concrete will be measured.).	25.00	Sqm.		

No of corrections:-
No of interpolations:-
No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
8	Providing, straightening, bending, binding and placing in position high strength deformed bars for reinforced cement concrete work including distribution bars, stirrups, binders etc. including initial straightening, removal of loose rust (If necessary cutting to requisite length, hooking, bending and binding to correct shape placing in proper position and binding with 20 gauge black annealed wire at every intersection complete as per drawing and direction. Payment to be made on actual quantities of reinforcement used in the work as per drawing and direction, weight calculated as per standard tables with three places of decimal and no extra for wastage, unnecessary overlaps or rolling margin shall be paid for, weight of binding wire shall not be measured its cost being included in the rate of reinforcement.)				
		0.20	M.T.		
9	Providing 15mm thick cement plaster in cement sand mortar in proportion (1cement:6 fine sand) by volume over inside surface of the building after racking out of joints, roughening the concrete surface, filling porturated surface , fixing wiremesh 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, tax, testing charges etc. complete in all respect as per the direction of Engineer / .in -charge.				
		360.00	Sqm.		
10	Providing, Supplying & fixing M.S. grills made of M.S. flat of size 19/ 25 x 6 mm & 16mm ,12mm / 8mm square bar as per detailed drawing & design in any other location as required, including painting 2 coats of synthetic enamel paint of approved shade & brand over 2 coats of zinc chromate / metal primer complete in all respects with all labour, material ,fabrication charge, lead, royalty, tax etc. as per direction of Engineer.-in-charge.				
		2,725.00	Kg.		
11	Providing, Supplying & fixing M.S. grilled gate made of M.S. angles, hollow sections, plates , flat and square bar as per detailed drawing & design including painting 2 coats of synthetic enamel paint of approved shade & brand over 2 coats of zinc chromate / metal primer complete in all respects with all labour, material ,fabrication charge, lead, royalty, tax etc. as per direction of Engineer.-in-charge.				
		210.00	Kg.		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
12	Finishing walls with water proofing cement paint (weather coat) of required shade , New work (two or more coats over primer coat) to give an even shade over plastered wall cost includes all material , scaffolding charges, lead,tax,T&P, Labour, royalty,curing etc., complete in all respect making good the damages as per the direction of the Engineer. -in-charge.	360.00	Sqm		

Total

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
SECTION-2, HORTICULTURE & LANDSCAPE					
1	Trenching in ordinary soil upto a depth of 60cm including removal and stacking of servicable material and then disposing of by spreading and neatly levelling with in a lead of 50mt and making up the treanched area to proper levels by filling with earth or earth mixed with sludge or / and manure before and after flooding trench with water (excluding cost of imported earth , sludge or manure)	55.00	Cum		
2	Providing grass lawns with "Doob" grass including watering & maintenance of the lawn for 30days or more till the grass forms a thick lawn free from weeds and fit for mowing including supplying of good earth if needed (the good earth shall be paid separately) cost includes all material, labour, lead, royalty complete in all respects as per the direction of Engineer-in-charge . In rows 5cm apart in either direction.	350.00	Sqm		
3	Supply of manure cost includes all material ,labour, T&P, Lead, royalty complete in all respects as per the direction of Engineer-in-charge . (manure measured in stacks will be reduced bu 8% for payment) screened through sieve of IS designation 16mm	55.00	Cum		
4	Supply of good earth cost includes all material ,labour, T&P, Lead, royalty complete in all respects as per the direction of Engineer-in-charge . (earth measured in stacks will be reduced by 20% for payment)	55.00	Cum		
5	Mixing filling & spreading of good earth mixed with manure cost includes all material ,labour, T&P, Lead, royalty complete in all respects as per the direction of Engineer-in-charge .	110.00	Cum		
6	Supplying & spreading compost cost includes all material ,labour, T&P, Lead, royalty complete in all respects as per the direction of Engineer-in-charge .	60.00	Cum		
7	Digging & Filling of pits (2'6" x 2'6" x2'6") with good garden soil & decomposed cowdung manure (1:1) after mixing properly. cost includes all material ,labour, T&P, Lead, royalty complete in all respects as per the direction of Engineer-in-charge .	30.00	No.		
8	Supplying of ornamental plants, planting, applying fertilisers , pesticides, fungicides, weeding,watering as required.	30.00	No.		

No of corrections:-

No of interpolations:-

No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
9	Collection of good shaped weathered rock from river bed & placing in position cost includes material,labour,lead,royalty etc. complete in all respects as per direction of Engg-in-charge.	6.00	Cum		
10	Hedging with MURRAYA EXOTICA ,DURANTA, VARIAGATE etc. plants at the interval of 0.30mts including digging of trench of size [0.45x 0.45 mt] & filling it with good garden soil & decomposed cowdung manure [1:1] after mixing properly.	65.00	Rmt		
11	Cost of maintenance of plant /lawn etc. for a period of 1 year ,replacement of plant if required free of cost.	1.00	No.		
12	Cleaning the entire compound on completion of all agencies including removing & disposal of rubbish from site complete.	1.00	No.		
13	Edging with bricks laid dry length wise including excavation, refilling, consolidating with hand packing and spreading neatly surplus earth within a lead of 50mtr 75 class designation	70.00	Mtr		
Total					

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
SECTION-3, SITE DEVELOPMENT & PATHWAYS					
1	Earth work in excavation in foundation trenches in Hard soils within initial lift 1.50 mt including breaking clods, rough dressing to the sides of trench , getting out the excavated soil & disposal of surplus excavated soil in layers not exceeding 0.20 mt within 50mtr of lead including cost of dewatering, shoring, labour, T & P, tax etc.complete in all respect as per the direction of the Engineer .-in-charge.	40.00	Cum		
2	Filling morrum at the site / ditches or mixed with soil including ramming, watering for compacting by P.R.R. after laying morrum not thickness not exceeding 150mm including lead, labour, T&P , materials, royalty,tax etc.to complete the work in all respect as per the direction of the Engineer.-in-charge.	22.00	Cum		
3	Providing & laying 100mm thick Kiln Burnt brick bat (over burnt) soiling as subbase of road using 40mm size including ramming , compacting after watering complete in all respects including cost of all material, labour,T&P, tax etc. as per direction of Engineer / .-in-charge.	18.00	Sqm		
4	Filling the with approved quality good river sand including ramming after watering for compacting laying sand in layers not exceeding 20 cm including cost of material, lead, labour, royalty, T&P, tax etc. to complete the work in all respect as per the direction of the Engineer . -in-charge.	22.00	Cum		
5	Providing and Laying of Plain Cement Concrete of proportion (1cement: 4coarse sand: 8 graded metal 40mm down size) by volume in foundation & subfloor using Crusher Broken Hard Black Granite Metal of size 40 mm down of approved quality including mixing by mechanical mixer, laying in position, compacting , curing etc. including cost of all materials,labour,lead,royalty,T & P etc. complete in all respect as per the direction of the Engineer .-in-charge.	20.00	Cum		

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
6	Providing, mixing and placing in position and compacting Reinforced cement concrete of design mix M - 25 conforming to grade controlled concrete of approved design as per IS 456 and as per approved mix design, as per the drawings using graded stone aggregates of nominal size 20 MM , including vibrating compacting, curing, hacking the surface to receive plaster complete inclusive of all labour/materials and as directed by Engineer-in -charge but excluding the cost of providing of steel formwork/ shuttering and steel reinforcement .	22.00	Cum		
7	Cutting, Straightening, bending, binding cold drawn Tor Steel of High Yield Strength Deformed Bars confirming to IS-1786-1985 [Grade Fe 415]of approved quality & manufacture , tying Tor steel in Grill and placing in position as per the requirement for R.C.C. work shown in drawing including cost of steel and binding wire (20 gauge black anealed) at every intersection, material, testing charges of steel, labour, lead, royalty, tax etc. complete in all respect as per the direction of the . / Engineer.-in-charge. (Weight shall be calculated as per standard table & wastage shall not be accounted)	1.20	M.T.		
8	Providing & fixing precast ,preured Cement Concrete [1: 1.5 :3] kerb stone [450 x300x175mm] with graded stone aggregates & fixing in position & pattern as shown in drawing in cement mortar [1cement: 6 coarse sand] & pointing in cement mortar [1cement: 2 coarse sand] including necessary excavation & filling side treanches etc. including cost of all materials, labour, tax, lead, T&P etc. complete in all respects as per the direction of Engineer.-in-charge.	45.00	Rmt.		
Total					

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.

Sl. No.	Item Description.	Qty.	Unit.	Rate. (In figures & words)	Amount.
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GENERAL SUMMARY (PART-II)

SECTION-1, BOUNDARY WALL & GRILLED GATE Rs

SECTION-2, HORTICULTURE & LANDSCAPE Rs

SECTION-3, SITE DEVELOPMENT & PATHWAYS Rs

GRAND TOTAL Rs

IN WORDS:-

Notes:-

1. In case of omission in quoting any rate, the evaluation will be done considering the highest quoted rate obtained against that item but the work, if awarded, will be on the lowest quoted rate obtained against that item
2. The rate shall be entered in figures as well as in words. In case of difference in rates between words and figures, the lesser of the two will be treated as valid rate.
3. The bidders shall enter both 'Unit Rate' & 'Amount'. In case of any mismatch between 'Total Amount based on Unit Rate' & 'Total Amount as quoted', the lower of the two shall be considered for evaluation and award.
4. The quantities indicated against each item above are tentative and same are liable to vary depending upon the site requirement. The contractor has to handle all items indicated by Engineer for completion of work.

No of corrections:-
 No of interpolations:-
 No of overwrittings:-

Sign of Bidder

Sign of E-I-C.