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**Item Rate BoQ**

Tender Inviting Authority: Chief Engineer Engineer(Civil) , RRCAT

Name of work: Construction of Engineering Hall for precision survey and alignment activity including PH works in unoccupied technical area at RRCAT, Indore.

Contact No: 0731-2488862,CSD,RRCAT

**NIT NO: RRCAT/CSD/98/200/3198/W-4407/26-27, Date: 08.05.2026**

<b>Name of the Bidder/ Bidding Firm / Company</b>	
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**PRICE SCHEDULE**

**(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only )**

NUMBE R #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1.00	2	4	5	12	13	54	55
1.00	Earthwork excavation over areas in all soils except soft and hard rock by mechanical means (hydraulic Excavator)/manual means and disposing off & levelling the soil within a distance of 50 metre. All complete as per drawing, specifications & as directed by the Engineer-in-charge.	3000.00	Cum	INR		0.00	INR Zero Only
2.00	Earthwork excavation over areas in soft rock by mechanical means (hydraulic Excavator)/manual means and disposing off & levelling the soil within a distance of 50 metre	1800.00	Cum	INR		0.00	INR Zero Only
3.00	Earthwork excavation over areas in hard rock by mechanical means (hydraulic Excavator)/manual means and stacking or disposing off the soil within a distance of 50 metre.	1800.00	Cum	INR		0.00	INR Zero Only
4.00	Earth work in surface excavation in all kind of soils not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:	2500.00	Sqm	INR		0.00	INR Zero Only
5.00	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.	2500.00	Sqm	INR		0.00	INR Zero Only
6.00	Disposing by mechanical transport; the garbage/ Unserviceable materials consisting of debris, rubbish, packing boxes, grass, electrical/electronics serviceable/ nonserviceable items etc. from domestic house / office to the predetermined locations in the RRCAT campus including loading, unloading, levelling, carrying by mechanical transport as required to maintain cleanliness around houses, parks and buildings in RRCAT campus including cost of all tools and tackles etc., complete as per specifications and as directed by Engineer-in-charge (Carriage capacity shall be around 5.00 Cum.).	20.00	Trip	INR		0.00	INR Zero Only

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7.00	Earthwork excavation in foundations in all soils other than soft and hard rock upto a depth specified below, including shoring and dewatering, if necessary, and refilling around foundations and plinth with selected excavated earth, in layers not exceeding 250mm thick, watering, consolidating etc. complete and disposing of surplus earth within a distance of 50 metre as per specifications. (depth of excavation shall be measured from the existing average ground level after over area excavation).						
7.10	0.00 metre to 1.50 metre below average G.L	780.00	Cum	INR		0.00	INR Zero Only
7.20	1.50 metre to 3.00 metre below average G.L	370.00	Cum	INR		0.00	INR Zero Only
8.00	Earthwork excavation in foundations in soft rock upto a depth specified below, including shoring and dewatering, if necessary, and refilling around foundations and plinth with selected excavated rocks, in layers not exceeding 250mm thick, watering, consolidating etc., and disposing of surplus excavated material within a distance of 50 metre as per drawings, specifications and as directed by the Engineer- in-charge (depth of excavation shall be measured from the existing average ground level).						
8.10	0.00 metre to 1.50 metre below average G.L	415.00	Cum	INR		0.00	INR Zero Only
8.20	1.50 to 3.00 m below AGL	260.00	Cum	INR		0.00	INR Zero Only
9.00	Excavation in foundations in hard rock by chiselling upto a depth specified below including dewatering, if necessary and stacking or disposing the excavated materials within a distance of 50 metre.						
9.10	0.00 metre to 1.50 metre below average G.L	50.00	Cum	INR		0.00	INR Zero Only
9.20	1.50 to 3.00 m below AGL	50.00	Cum	INR		0.00	INR Zero Only
10.00	Excavation in Trenches, for pipes and sewers in all soils except soft and hard rock by mechanical means (hydraulic Excavator)/manual means upto a depth specified below including shoring and dewatering if necessary and refilling in trenches with selected excavated materials in layers not exceeding 25cm. consolidating etc. and disposing the surplus earth within a distance of 50m.complete . All complete as per drawing, specifications & as directed by the Engineer-in-charge.						
10.10	0.00 metre to 1.50 metre below average G.L	120.00	Cum	INR		0.00	INR Zero Only
10.20	1.50 to 3.00 m below AGL	40.00	Cum	INR		0.00	INR Zero Only
11.00	Excavation in Trenches, for pipes and sewers in soft rock by mechanical means (hydraulic Excavator)/manual means upto a depth specified below including shoring and dewatering if necessary and refilling in trenches with selected excavated materials and disposing the surplus earth within a distance of 50m. complete.						
11.10	0.00 metre to 1.50 metre below average G.L	60.00	Cum	INR		0.00	INR Zero Only
11.20	1.50 to 3.00 m below AGL	20.00	Cum	INR		0.00	INR Zero Only
12.00	Lead charges, by mechanical transport to anywhere in RRCAT CAMPUS, including loading, unloading, stacking/levelling etc. complete.						
12.10	For soil	770.00	Cum	INR		0.00	INR Zero Only
12.20	for rocks	50.00	Cum	INR		0.00	INR Zero Only

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13.00	Banking select excavated earth within RRCAT premises, in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tonne roller, or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing up, in embankments for roads, flood banks, marginal banks, and guide banks etc., lead within RRCAT premises and lift upto 1.5 m. complete as required as per drawings, specifications and as directed by Engineer-in-charge.	1920.00	Cum	INR		0.00	INR Zero Only
14.00	Construction of Granular sub base by providing coarse graded material as per grading, spreading in uniform layers on the prepared surface, mixing at optimum moisture content and compacting with vibratory roller/mechanical earth rammer to achieve the desired density complete.						
14.10	For grading - I material (with 75mm and down size aggregates)	510.00	Cum	INR		0.00	INR Zero Only
14.20	For grading - II material (with 53mm and down size aggregates)	510.00	Cum	INR		0.00	INR Zero Only
15.00	Providing & laying in position Cement concrete 1:3:6 using graded stone aggregate 40 mm max. size including consolidating, finishing, curing etc. complete excluding formwork as per specifications.	200.00	Cum	INR		0.00	INR Zero Only
16.00	Providing & laying in position REINFORCED cement concrete of M-20 grade at all heights using graded stone aggregate of 20 mm max. size including machine mixing, consolidation, mechanical vibration, finishing, curing, cost of labour & machineries etc. complete as per specifications but excluding formwork, shuttering and steel reinforcement.						
16.10	In foundations, footings, plinth beams, base of columns, flooring.	40.00	Cum	INR		0.00	INR Zero Only
17.00	REINFORCED CEMENT CONCRETE of M-25 grade at all heights using graded stone aggregate of 20mm max. size including machine mixing, weigh batching mechanical vibration, consolidation, finishing, curing and cost of labour, machinery, and materials etc. complete specifications but excluding shuttering, formwork and steel reinforcement.( Minimum cement content should not be less then 387 kg/cum of concrete)						
17.10	In foundations, footings, plinth beams, base of columns, flooring.	590.00	Cum	INR		0.00	INR Zero Only
17.20	In columns, mullions, pillars, posts, struts	355.00	Cum	INR		0.00	INR Zero Only
17.30	In beams, slabs, lintels, bed blocks, chajjas, canopies, shelves, walls, and window cills.	750.00	Cum	INR		0.00	INR Zero Only
17.40	In facias, fins	10.00	Cum	INR		0.00	INR Zero Only

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18.00	Providing and laying in all positions at all levels <b>Ready Mixed Concrete of M25 grade with minimum cement content of 387 kg /cum, manufactured in fully automatic batching plant</b> and transported to site of work in Transit mixer for all lead having continuous agitated mixer, manufactured as per <b>mix design of following grade for REINFORCED CEMENT CONCRETE</b> work including pumping of R.M.C. from Transit mixer to site of laying, over prepared sub-base with or without alternate panels as per drgs in required thickness for required sizes in line level maintaining slope including form work using MS channels of required height, compacting with needle & surface vibrator, leveling with tri mix surface vibrator, Vacuum De-watering with trimix vacuum pump, floating and further compaction with trimix skin floater equipped with floating disc, <b>it also includes providing and applying metallic floor hardener (approx. 4 kg per sqm) on the freshly laid concrete surface, power trowel finished to obtain a dense, smooth, abrasion-m dia GS rod shall be round.</b> The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing extra fram work around openings for duct, supply/return air grill, electrical fittings, smoke detectors, fire alarm systems, voided arrangement for inspections etc. all complete as per drawings, specifications <b>and as directed by Engineer-in-charge.</b>	750.00	Cum	INR		0.00	INR Zero Only
19.00	Providing and laying <b>Design mix Ready Mixed Concrete (RMC) of M40 grade</b> , on existing WBM road/Granular sub base, manufactured using ordinary portland cement or Portland Pozzolona Cement (PPC) conforming to relevant IS specifications, coarse sand, graded stone aggregates 20mm nominal size and downgraded, providing and mixing approved compatible super plasticiser, all ingredients in proportion as per approved specified design criteria and established mix design including vibrating the concrete using needle and surface vibrator including joint filler primer, rounding of the edges, making & filling the grooves 10 mm x 25 mm deep at top for construction joint and 10 mm x 50 mm deep at top for dummy joints with sealing compound (confirming to grade B of IS:1834) including making necessary arrangement for expansion joints (expansion board & dowel bars), laminated closed cell Polyethylene foam joint filler 20mm thick for expansion joint, skid free finishing, cost of labour, tools, machinery etc. complete as per spm dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on an	390.00	Cum	INR		0.00	INR Zero Only
20.00	Providing, centering and shuttering using timber planks/steel plates including strutting and propping etc. at all heights and removal of the same for in situ reinforced concrete and in plain concrete work						
20.10	Foundations, footings, base of columns plinth beams, flooring, machine foundations, bed blocks, window cills, copings and mass concrete	1500.00	Sqm	INR		0.00	INR Zero Only
20.20	Columns, pillars, posts, struts, mullions etc.	2800.00	Sqm	INR		0.00	INR Zero Only
20.30	Sides and soffits of beams, beam haunchings lintels, cantilever, girders, bressumers, soffits of suspended floors, roofs, landings balconies, chajjas etc.	3800.00	Sqm	INR		0.00	INR Zero Only
20.40	Walls, partitions and the like including attached pilasters etc.	1380.00	Sqm	INR		0.00	INR Zero Only

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20.50	Facias, drop walls, pardis, vertical and horizontal fins individually or forming box louvers and bands, staircase etc.	420.00	Sqm	INR		0.00	INR Zero Only
21.00	Providing and fixing <b>reinforcement</b> for reinforced cement concrete using preferred make having minimum yield strength of Fe500 or higher grade as per IS:1786 at all levels including supplying, cutting, bending, fixing, tying in position with min 1.4 mm dia soft drawn annealed binding wire etc. complete including cost of binding wire.	285.00	MT	INR		0.00	INR Zero Only
21.10	Note:						
21.20	a. Binding wire required for the work will have to be supplied by the contractor at their own cost and will not be measured for payment.						
21.30	b. Reinforcement steel of Grade Fe 500 conforming to IS 1786 TMT BARS shall be supplied from preferred make, from their own plants rolled from virgin material and not from their rerollers or conversion agents.						
21.40	c. The contractor shall supply copy of Documentary evidence of purchase of steel, test certificate from the firms and also testing from third party if required to be arranged at no extra cost.						
22.00	Providing, fabricating, cutting, erecting, and fixing in position structural steel works of any shape using <b>Bulitup section, ISMBs, Joists, channels, angles, flats, Tees etc.</b> of minimum grade Fe 250, at all levels including welding, two coat of synthetic enamel painting with a primary coat of approved steel primer and transportation etc. complete as per specifications and as directed by Engineer-in-Charge. (The welding weights shall not be measured for payments but cost of same shall be included in the rate.)	35.00	MT	INR		0.00	INR Zero Only
23.00	Providing, fabricating, cutting, erecting, and fixing in position structural steel works of any shape using <b>RHS, SHS &amp; circular hollow sections</b> of Grade Yst 250 as per IS: 4923 at all levels including welding, two coat of synthetic enamel painting with a primary coat of approved steel primer and transportation etc. complete as per specifications and as directed by Engineer-in-Charge. (The welding weights shall not be measured for payments but cost of same shall be included in the rate.)	45.00	MT	INR		0.00	INR Zero Only
24.00	Providing, fabricating, cutting, erecting, and fixing in position structural steel works of any shape using <b>Structural steel M.S. plain &amp; chequered plates</b> at all levels including welding, two coat of synthetic enamel painting with a primary coat of approved steel primer and transportation etc. complete as per specifications and as directed by Engineer-in-Charge. (The welding weights shall not be measured for payments but cost of same shall be included in the rate.)	15.00	MT	INR		0.00	INR Zero Only
24.10	Note: ( Common for Structural steel Items )						
24.20	1. Structural steel conforming to IS: 2062						
24.30	2. The contractor shall supply copy of Documentary evidence of purchase of steel, test certificates from the manufacturing firms and also testing from third party, if required to be arranged at no extra cost.						
24.40	3. Welding weights, connections, bolts and nuts shall not be measured for payment but the cost of which shall be deemed to have been included in the rate.						
24.50	4. All holes will be made by drilling only. Gas cutting of holes will not be permitted.						
24.60	5. Electrodes as per preferred make shall be used.						

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25.00	Providing and fixing in position 0.50 mm thick precoated galvanised iron profile sheets in roofing/cladding (size, shape & pitch of corrugation as 5 % total coated thickness (TCT), Zinc coating 80-100 gsm as per IS 277, 0.05 mm, 240 mpa mm steel grade 5-7 microns epoxy primer on both sides of the sheet and RMP top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x55 mm) with EPDM seal or with polymer coated J or L hooks, bolts & nuts 8 mm dia. with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead complete upto any pitch in horizontal/vertical or curved surfaces excluding the coat of purlins, rafters and trusses and including cost of all materials, labours, scaffolding, cutting to size and shape wherever required, etc. complete as per specm dia GS rod shall be round. The top end shall be	550.00	Sqm.	INR		0.00	INR Zero Only
26.00	Providing and fixing roof sheeting in two layers at all heights, 0.5 mm thick TCT colour coated fully screwless Galvalume sheets joined to double lock standing seam with 52 mm depth & 350-550 mm pitch or equivalent size of preferred make in top & 0.50 thick color coated multi ribbed linear panels at bottom of roof including all overlaps, mitring and expandable S.S. clips with HAT section @ 1.20 M c/c or spacing of existing purlin to join the sheets to purlin as per manufacturer's code of practice, Base material for both the sheet shall be Galvalume and have a minimum yield strength of 340 Mpa and shall conform to the physical specifications of ASTM A 446(Grade D)/ ASTM A 755(Grade 50) / A653 (Grade 50)with Galvalume coating conforming to ASTM A 792-AZ 150 ( 150 gm. Per sqm.), including p/f top/bottom ridge, S.S. end flashing, E.T.P. closures rainwater downtakes, gutter sheets, fascia etc. matching with profile panels and cutting the sheets as required including jointing screwless sheet using electric portabm dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing extra fram work around openings for duct, supply/return air grill, electrical fittings, smoke detectors, fire alarm systems, voided arrangement for inspections etc. all complete as per drawings, specifications and as directed by Engineer-in-charge.	2450.00	Sqm	INR		0.00	INR Zero Only
27.00	Providing & fixing in position at all levels <b>compact polycarbonate sheets of following thicknesses</b> , with 80% - 90% light transmission and having both sides UV protection of preferred make including fixing at site using Dry Aluminium Glazing section (comprising of top & bottom aluminium members with EPDM rubber to ensure water tight joint) & self tapping screws of required length, silicon sealants, anti leakage washers, mitring etc as per manufacturer's code of practice, cutting the sheet in required shape using Jigsaw or hacksaw, cutting shears or plastic cutting blades etc. complete as per specifications & as directed by Engineer-in-Charge. NOTE : 1. The sheets shall be of uniform pigmentation and thickness without airpockets and shall conform to IS 12866. 2. The sheets shall be opaque or translucent, clear or pigmented, textured or smooth as per the requirement. 3. The sheets shall be supplied in one piece covering the full curved portion as per enclosed site drawing i.e. the sheets shall have joints in t system as per the requirements, transportation, cost of a						
27.10	6mm thick	160.00	Sqm	INR		0.00	INR Zero Only

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28.00	Brick work in cement mortar 1:6 using table moulded chimney bricks having a compressive strength not less than 40kg/cm <sup>2</sup> in foundation, plinth upto FFL and compound wall pillars including curing, raking out joints above ground level, simultaneous pointing below G.L. etc. complete as per specifications and as directed by Engineer-in-Charge.	105.00	Cum	INR		0.00	INR Zero Only
29.00	Brick work in cement mortar 1:6 using table moulded chimney bricks having a compressive strength not less than 40kg/cm <sup>2</sup> in superstructure at all heights including double scaffolding, raking out joints, curing etc. complete as per specifications and as directed by Engineer-in-Charge.	500.00	Cum	INR		0.00	INR Zero Only
30.00	Half Brick masonry using table moulded chimney bricks having a compressive strength not less than 40kg/cm <sup>2</sup> in partition walls in C.M. 1:4 at all levels, with stiffeners of reinforced cement concrete 1:2:4 (100mm x 100mm) size at every 900mm height including double scaffolding, raking out joints, form work for stiffeners, curing etc. complete (Note: Reinforcement will be measured and paid for separately under relevant item of schedule.)	700.00	Sqm	INR		0.00	INR Zero Only
31.00	Brick work in cement mortar 1:6 using non-modular <b>Fly Ash bricks</b> having a compressive strength not less than 80kg/cm <sup>2</sup> in <b>Foundation &amp; Plinth up to FFL</b> including curing, raking out joints above ground level, simultaneous pointing below G.L. etc. complete as per specifications and as directed by Engineer-in-Charge.	105.00	Cum	INR		0.00	INR Zero Only
32.00	Brick work in cement mortar 1:6 using non-modular <b>Fly Ash bricks</b> having a compressive strength not less than 80kg/cm <sup>2</sup> in <b>Superstructure</b> at all levels including double scaffolding, curing, raking out joints above ground level etc. complete as per specifications and as directed by Engineer-in-Charge.	500.00	Cum	INR		0.00	INR Zero Only
33.00	Cement plastering at all levels for internal walls/ceilings with cement mortar 1:4 over brick walls or concrete surfaces, including hacking of concrete surfaces, double scaffolding, curing etc. complete.						
33.10	12mm thick	1700.00	Sqm	INR		0.00	INR Zero Only
33.20	20mm thick	5600.00	Sqm	INR		0.00	INR Zero Only
34.00	Providing and fixing in position 24 G G.I. Chicken wire mesh of size 15mm x 15 mm fixed at the junction of beam and wall, junction of column and wall including cutting to required size, tying the mesh to bars/nuts which are properly welded to the metallic inserts or tying with 16 G annealed binding wire, removing all undulations, tight fixing and including cost of all materials and labours etc. complete as per specifications and as directed by Engineer-in-Charge.	500.00	Sqm	INR		0.00	INR Zero Only
35.00	Sand faced plaster 20mm thick in 2 coats over exterior masonry and concrete surfaces at all heights with base coat in cement mortar 1:4, 12mm thick and finishing coat in cement mortar 1:3, 8mm thick final rendering, double scaffolding wherever necessary, hacking of concrete surfaces, curing etc. complete and addition of waterproofing compound @ 2% of weight of cement for the base coat etc. complete as per specifications and as directed by Engineer-in-Charge.	3500.00	Sqm	INR		0.00	INR Zero Only
36.00	Waterproof cement plaster in cement mortar 1:3, with waterproofing compound @ 2% by weight of cement including double scaffolding, curing, hacking of concrete surfaces etc. complete as per specifications and as directed by Engineer-in-Charge.						

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36.10	12mm thick	150.00	Sqm	INR		0.00	INR Zero Only
36.20	20mm thick	150.00	Sqm	INR		0.00	INR Zero Only
37.00	Cement concrete flooring (IPS) of 50 mm thick with cement concrete of mix 1:1½:3 with graded stone aggregate of 10mm max. size, laid to proper level or slope in alternate bays, rammed and finished smooth including providing & fixing glass dividing strips of size 25mmx3mm, curing etc. complete as per specifications and as directed by Engineer-in-Charge.	100.00	Sqm	INR		0.00	INR Zero Only
38.00	Cement plaster 20mm thick in skirting and risers to steps with cement mortar 1:3 finished with a coat of neat cement including rounding of junctions with floor where necessary curing etc. complete.	25.00	Sqm	INR		0.00	INR Zero Only
39.00	Cement concrete flooring 50 mm thick consisting of 38 mm thick cement concrete 1:1½:3 with 10mm size aggregate as under layer, and 12mm thick wearing surface with METALLIC FLOOR HARDNER cement being mixed with metallic floor hardener of approved quality and make in proportion of 4:1 (4 cement : 1 Metallic floor hardener) by weight and cement hardener compound mixed with 6mm down graded stone aggregate in the ratio of 1:2 by volume including, ramming, finishing, to required levels or slope, providing & fixing dividing strips, curing etc. complete generally as recommended by the manufactures etc. complete.						
39.10	With aluminum dividing strips of size 25mm x 3mm	180.00	Sqm	INR		0.00	INR Zero Only
40.00	Providing and fixing <b>2mm thick epoxy based joint less flooring</b> of preferred make over existing flooring such as concrete floor, tiles, wood, metal etc. formulated out to required levels, thickness slopes and finished smooth or rough including curing, preparing the surfaces such as filling holes, cracks, joints, wherever necessary by epoxy based trowelling compound, including providing and applying one coat of two component epoxy based primer including cost of materials and labours etc. complete as per manufacturer's recommendation.	1500.00	Sqm	INR		0.00	INR Zero Only
41.00	Kota stone flooring/skirting, using 15mm to 20mm thick hand cut single machine polished kotah stone slabs laid over 20 mm thick mortar, close jointed and pointed with matching cement slurry finished to levels, slope or plumb as required and cured etc. complete.						
41.10	In flooring with lime mortar 1:2 bedding and with machine polishing after laying.	540.00	Sqm	INR		0.00	INR Zero Only
41.20	In skirting over cement mortar 1:3 backing, with exposed edge machine cut and surfaces hand polished after laying.	30.00	Sqm	INR		0.00	INR Zero Only
42.00	Non Slippery Ceramic tile flooring/dado using 6mm thick matt finished ceramic tiles of sizes as mentioned below, 1st quality of preferred make over 20mm thick cement mortar 1:3 bedding, close jointed and pointed with matching cement slurry using white cement pigment mixed with, finished to levels slope or plumb as required including 20mm thick cement mortar 1:3 bedding, making good the surface before bedding, cutting of tiles, curing, acid washing etc. complete as per specifications and as directed by Engineer-in-Charge.						
42.10	<b>For flooring</b> using tiles of size 450x450mm and 300x300mm	100.00	Sqm	INR		0.00	INR Zero Only
42.20	<b>For Dado/Skirting</b> using tiles of size 300x450mm	280.00	Sqm	INR		0.00	INR Zero Only

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43.00	Providing and laying/fixing in position 15mm to 18mm thick machine polished Black, Cherry/Ruby red shade granite slabs of approved colour and quality including machine/hand cut, polishing, buffing the edges all in line, level, (curvature corners if required) in 20mm thick cement mortar 1:3 bedding with best workmanship, finishing, curing, complete in platforms, shelves, wash basin, cills, jambs, facias, treads and risers etc. complete as per specifications and as directed by Engineer-in-Charge.						
43.10	Black, Cherry/Ruby red shade	350.00	Sqm	INR		0.00	INR Zero Only
43.20	Other shades	140.00	Sqm	INR		0.00	INR Zero Only
44.00	Providing and laying polyvinyl (PVC) rolls/tiles of preferred make of thickness 2mm heavy duty solid vinyl flooring of approved make and colour, pattern and designs for flooring, skirting/dado laid on existing smooth cement tile or concrete or plastered finish, with suitable adhesive as per manufacturer's specifications, close jointed by PVC welding and finished to proper bends, slope and plumb etc. complete as per specifications and as directed by Engineer-in-Charge.	700.00	Sqm	INR		0.00	INR Zero Only
45.00	Providing and fixing in position first class double charged vitrified procelain tiles (thickness to be specified by the manufacturers) with water absorption less than .08% and conforming to IS 15622, of approved manufacture of size 600x600mm of approved colour , pattern and design for flooring , skirting or dado laid in floor wall of existing concrete or plastered surface over 20mm thick cement mortar 1:3 bedding close jointed and pointed with matching slurry @ mortar 1:3 bedding close jointed and pointed with matching slurry @3.30kg/sqm using white cement with pigments finished to levels , slope or plumb as required including cement mortar bedding, cutting of tiles to required size and curing , acid washing etc. complete as per specifications and as directed by Engineer-in-Charge.	1620.00	Sqm	INR		0.00	INR Zero Only
46.00	Providing and fixing in position first class double charged vitrified porcelain tiles (thickness to be specified by the manufacturers) with water absorption less than 0.08% and conforming to IS:15622, of approved manufacturer of size 600mmx 600mm of approved color, pattern and design for flooring, skirting or dado laid in floor, wall of existing concrete or plastered surface using cement based high polymer modified quick set <b>tile adhesise (water based)</b> conforming to IS:15477 in average thickness of 6mm including grouting the joints, finished to levels, slope or plumb as required including cement based high polymer modified adhesise, cutting of tiles to required size and curing, acid washing etc. complete.	650.00	Sqm	INR		0.00	INR Zero Only
47.00	Providing and fixing in position <b>readymade PRECAST CEMENT CONCRETE Kerb Stone</b> 80 mm thick of approved design & pattern of size 300mm x 350 mm & having a minimum compressive strength of 350 Kg/Sqcm, including the cost of excavation, necessary 1:2:4 cement concrete for embedment of kerb stone, necessary formwork if required etc. as per specifications, close jointed & pointed with cement paste including finishing the surface smooth, curing, hoisting & erecting in position etc. complete as per drawings, specifications and as directed by Engineer-in-charge.	120.00	RM	INR		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
48.00	Providing and laying <b>rubber moulded reflective type</b> factory made chamfered edge Cement Concrete <b>interlocking paver blocks</b> of following thicknesses in footpath, parks, lawns, drive ways or light traffic parking etc, of Alankar/Parex or other approved make of M-35 grade strength, of approved size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge. Note :- The cost of sand shall be paid separately under relavant item.						
48.10	80mm thick interlocking paver blocks	180.00	Sqm	INR		0.00	INR Zero Only
49.00	Providing and fixing 8 mm thk prelaminated wooden flooring (AC-3) of preferred make, including providing & fixing underlayer of supreme profile 2 mm polyurethane sheet on levelled finished floor required pattern, levelled & finished, including providing & fixing Teak wood reducer/beading at side edges near door and junctions of floor & wall including cost of all materials and labour involed for complete work etc. complete as per drawings ,specification , and as directed by Engineer -in-charge. ( NOTE : The finished surface shall be levelled with a margin of +/- 5mm.)	100.00	Sqm	INR		0.00	INR Zero Only
50.00	Providing wood work with C.P. Teak wood in Frames for doors, windows, ventilators, clear storey windows, false ceilings, wall paneling and partitions etc. wrought, framed and fixed in position, including applying one coat of approved wood primer to the exposed surfaces and two coats of bituminous paint to the surfaces of frames in contact with masonry/concrete etc. including making provision & finishing of openings for light fixtures, smoke detectors and cameras etc. complete as per drawing, specifications and as directed by Engineer-in-Charge.						
50.10	In frames of False ceilings, wall paneling and partitions etc. Using 2nd class Teak wood	1.00	Cum	INR		0.00	INR Zero Only
51.00	Providing wood work with 1st Class CP Teak wood architrave moulding/board of approved shape of size 150-200 mm width, 16-18 mm finished thickness, teak wood battens ( sectional joints will not be permitted ) for skirting, window jambs including fixing the same using rawl plugs & 50mm long screws on existing surface, finishing the portion of screws with putty, planing the surface, rounding the exposed edges, as required cost of all materials & labours involved for complete work and the like, working at all heights, hoisted and fixed in position including applying one coat of approved wood primer to the exposed surfaces and two coats of bituminous paint to the surfaces of wood work in contact with masonry/concrete etc. complete as per drawing, specifications and as directed by Engineer-in-Charge.	2.00	Cum	INR		0.00	INR Zero Only
52.00	Providing & fixing in position 3 Ply 24 GSM fibre glass tissue paper using approved adhesive at all levels on wall/Rock wool slab including the cost of approved adhesive, ensuring that no entrapped air exists, including the cost of all materials and labours involved for complete work, scaffolding etc. complete but excluding the cost of Rockwool slab, as per drawing, specifications and as directed by Engineer-in-Charge.	100.00	Sqm	INR		0.00	INR Zero Only

SI. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
53.00	Providing & fixing in position 50mm thick Rockwool slab of density not less than 48Kg/cum of approved size at all heights including protecting the slab including cutting the slab to required size, cost of all materials & labours involved for complete work, scaffolding including making provision & finishing of opening for light fixtures, smoke detectors and cameras etc. all complete as per drawing, specifications and as directed by Engineer-in-Charge.	100.00	Sqm	INR		0.00	INR Zero Only
54.00	Providing & fixing at all levels using Pine/Steem Beach well seasoned wood wall paneling 45 mm x 10 mm thick minimum finished size without joint fixed on existing wood surfaces using sunken screws at 500mm c/c complete including squaring the edges to ensure 8mm clear gap between adjacent panels, finishing with putty the portion of screws, planning the surfaces, cost of all materials & labours involved for complete work, scaffolding etc. All complete as per drawing, specifications and as directed by Engineer-in-Charge.	100.00	Sqm	INR		0.00	INR Zero Only
55.00	Providing & fixing in true horizontal/vertical/inclined M/F suspended false ceiling/wall cladding (FR as per manufacturers specification) system of preferred make using Ultra perimeter channels (27mm web and 20&30mm flange) fixed to wall with rawl plug and screws, at 610mm centres along the perimeter of ceiling, intermediate channels(45mm web and 15mm each flange) from the soffit at 900mm centre with ceiling angle( 25x10mm,0.55mm thick) fixed to soffit at 1220mm c/c with GI cleat and steel expansion fasteners to form a grid of 900mm x 1220mm. Ceiling section (51.5mm web and 26mm each flange)fixed to intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457.5mm centres. Single layers of 12.5mm thick Fultone perforated (600 mm x 600 mm) tile fixed to ceiling section with screws at 230mm centres. Square and tapered edges of the tiles to be jointed and finished flush look including filling and finishing with jointing compound, paper tape and two coats system as per the requirements, transportation, cost of all labours, scaffolding if necessary, machinery, tests, chipping of walls, bea	50.00	Sqm	INR		0.00	INR Zero Only
56.00	Providing & fixing first class C.P. teak wood moulded beading (architrave) of size 40 x 10 mm around door and window frames and at required places with necessary screws and painting with a coat of approved primer etc. All complete as per drawing, specifications and as directed by Engineer-in-Charge.	60.00	RM	INR		0.00	INR Zero Only
57.00	Applying 3 coats of FRENCH POLISH of approved make and tint to obtain finish as required over a coat of wood filler including sand papering, cleaning, filling up holes, cracks and crevices with putty etc. complete to give an even shade etc. with tools & tackles, safety appliances complete. All complete as per drawing, specifications and as directed by Engineer-in-Charge.	30.00	Sqm	INR		0.00	INR Zero Only
58.00	Providing, fabricating, supplying and erecting in position both side laminated flush door shutters of following thicknesses (excluding the thickness of lamination) in solid block board core, internally lipped, bonded with water proof type synthetic resin, hot pressed with commercial ply finish and decorative plastic laminate of preferred make of 1 mm thickness on both faces including providing and fixing aluminum, CPMS fittings and fixtures as per drawing, heavy duty stainless steel hinges, locking arrangements and preferred make door closure with screws etc. All complete as per specifications and as directed by Engineer-in-Charge.						
58.10	<b>35mm thick</b> (excluding the thickness of lamination)	6.00	Sqm	INR		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
59.00	Providing pre-construction anti-termite treatment (with chloropyrifos 1% concentration) generally as per IS 6313 (Part-II)-1981 guaranteed for ten years complete. The treatment shall comprise of following stages :-	3200.00	Sqm	INR		0.00	INR Zero Only
59.10	a). Treatment around foundation, footing & columns :- Soil poisoning from the depth of 500mm below ground level around RCC/Brick foundations, columns, plinth beams, walls, etc. with chloropyrifos (1% concentration) @ 7.50 litres per sq.m. of vertical surface including rodding the earth at 150mm centre to centre close to the column/ beams/walls surfaces, spraying the chemicals so as to soak the soil right to the bottom complete including tamping back the soil into place after this operation.						
59.20	b). Treatment around internal/external walls or plinth beams :- Soil poisoning from the ground level upto the level of filled up earth surface around junction of internal/external wall and floor with chloropyrifos (1% concentration) @ 7.50 litres/m <sup>2</sup> . of vertical surface so as to establish continuity of the vertical chemical barrier on inner wall surfaces from ground level including making a small channel of size 30mm x 30mm, rodding the channel at 150mm centre to centre to pour the chemical, spraying the chemicals so as to soak the soil right to the bottom complete including tamping back the soil into place after this operation.						
59.30	c). Treatment of soil below sub grade of floor :- Soil poisoning of the top surface of the filled earth within plinth wall with chloropyrifos @ 5.00 litres/m <sup>2</sup> . of the surface including making hole 50 to 75 mm deep at 150mm centre to centre both ways.						
59.40	Note: The amount @ 10% of security deposit deducted from the item shall be withheld by the department for a period of 10 years from the date of completion (as per service guarantee).						
60.00	Providing cement based waterproofing treatment to New Terraces, chajjas cleaning the concrete surfaces, giving injections to top slab as required with cement and approved waterproofing compound solution to fill up all inherent holes, voids honey-combs etc. in the concrete slab, setting brick bat coba in waterproof mortar 1:3 with necessary gradient for easy flow of water and continue the treatment along the inner faces of parapet or other adjoining wall upto a height of 300mm in the shape of vatas, with waterproof plaster 1:3 finished smooth with trowel in cement/geru with false markings of 300mm squares including the cost of providing & fixing the chicken wire mesh before finishing the surface etc. complete. (The treatment shall be tested by ponding water for a period of 10 days).						
60.10	Providing cement based waterproofing treatment to Terraces (average thickness 110mm)by cleaning the concrete surfaces, giving injections to top slab as required with cement and approved waterproofing compound solution to fill up all inherent holes, voids honey-combs etc. in the concrete slab , setting brick bat COBA in waterproof mortar 1:4 with necessary gradient for easy flow of water and continue the treatment along the inner faces of parapet or other adjoining wall upto a height 300mm in the shape of Vatas, with waterproofing plaster 1:3 finished smooth, including the cost of providing and fixing the glass fibre cloth (45gsm) of approved quality in top layer of plaster and finally finishing the surfaces with trowel with neat cement slurry and making pattern of 300mmx300mm square 3mm deep complete. ( The treatment shall be tested by ponding water for a period of 10 days & dose of waterproofing compound solution is as per manufacture solution )	1100.00	Sqm	INR		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
61.00	Providing cement based waterproofing treatment to Sunken (average thickness 65mm) by cleaning the concrete surfaces, giving injections to top slab as required with cement and approved waterproofing compound solution to fill up all inherent holes, voids honey-combs etc. in the concrete slab, setting brick bat coba in waterproof mortar 1:4 with necessary gradient for easy flow of water and continue the treatment along the inner faces of adjoining wall upto a height of 300 mm in the shape of vatas, with waterproof plaster 1:3 finished smooth with trowel in cement complete. (The treatment shall be tested by ponding water for a period of 10 days & dose of waterproofing compound solution is as per manufacturer's specification).	80.00	Sqm	INR		0.00	INR Zero Only
61.10	Applicable for both the above item nos. 26 & 27.						
61.20	<b>Stages of treatment:</b> (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 100 mm63mm (as applicable) size with 50% of cement mortar 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:4 (1 cement : 4 coarse sand ) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.						
61.30	(c) After two days of proper curing, applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:3 (1 cement :3 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of 45 gsm of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep.						
61.40	<b>Note:</b> 1. If due to location of rain water pipes/ drain pipes, the thickness of treatment exceeds 110mm/65mm to provide sufficient slope for easy flow of water, provision is to be made of <b>extra brick bat coba</b> item as per item no. 1 in this chapter.						
61.50	2. The waterproofing treatment is to be GUARANTEED for bone dry condition for a period of 10 years.						
61.60	3. An amount @ 10% of the value of the item shall be withheld by the department for a period of 10 years from the date of completion.						
61.70	4.The measurement for payment shall be the entire area of terrace covered by the treatment measured between brick/concrete parapets without plaster and the area of vatas calculated by taking the length of vatas and the height above the finished level of the terrace/chajja.						

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62.00	Preparing the surface and etching with 10% commercial hydrochloric acid wherever necessary, neutralising the etched areas by washing with 5% solution of soda ash, applying one coat of pigmented epoxy based primer followed by one coat of epoxy based trowelling compound, cutting and grinding the surfaces wherever necessary using waterproof quality emery paper and applying three finishing coats of epoxy based polyamine/polyamide cured special acid and alkali resistant paint of approved make & tint including preparing surfaces, scrapping, filling holes, cracks, joints, wherever necessary with epoxy based trowelling compound, cost of all materials, scaffolding and labour, tools & tackles, safety appliances and as per manufacturer's recommendations.						
62.10	With POLYAMIDE cured epoxy paint	1200.00	Sqm	INR		0.00	INR Zero Only
63.00	Painting plastered surfaces with two/three coats of Acrylic emulsion paint of approved shade and make over one coat of approved cement primer including preparing the surfaces, filling with full wall putty, scaffolding and cleaning, tools & tackles, safety appliances etc. complete						
63.10	Three finishing coats over a coat of primer	7700.00	Sqm	INR		0.00	INR Zero Only
64.00	Providing, laying or fixing approved quality PVC RAIN WATER PIPES & FITTINGS of preferred make conforming to IS : 13592, with necessary clamps or concealed in walls including jointing with approved solvent ,clamping, and scaffolding etc. complete. as per specification and direction by Engineer In charge.						
64.10	110mm dia PVC pipes	230.00	Rm	INR		0.00	INR Zero Only
65.00	Painting New exterior walls on rough surfaces with two coats of External acrylic emulsion paint of approved colour and shade including preparing the surfaces, filling with putty wherever required, scaffolding and cleaning, tools & tackles, safety appliances etc. complete and as per drawings, specifications & as directed by the Engineer-in-charge.	3500.00	Sqm	INR		0.00	INR Zero Only
66.00	Providing & fixing in true horizontal level M/F suspended false ceiling (FR-120 min) system manufactured by preferred make using Ultra perimeter channels (27mm web and 20 & 30mm flange) fixed to wall with rawl plug and screws, at 610mm centres along the perimeter of ceiling, intermediate channels(45mm web and 15mm each flange) from the soffit at 900mm centre with ceiling angle (25x10mm,0.55mm thick) fixed to soffit @ 1220mm c/c with GI cleat and steel expansion fasteners to form a grid of 900mm x 1220mm. Ceiling section (51.5mm web and 26mm each flange) fixed to intermediate channel with the help of connecting clip and in direction perpendicular to the intermediate channel at 457.5mm centres. Single layers of 15mm tapered edge Gyproc Fireline fixed to ceiling section with screws at 230mm centres, Square and tapered edges of the boards to be jointed and finished flush look including filling and finishing with jointing compound, paper fiber tape and two coats of drywall top coat etc. complete as per specification dia GS rod shall be round. The top end						
66.10	False ceiling/masking suspended by anchor rods fixed with anchor fasteners and 15mm tapered edge Single layers Fireline board panel on one side.	100.00	Sqm	INR		0.00	INR Zero Only

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67.00	Providing & fixing in rue horizontal level 600x600x15mm mineral fibre false ceiling system of minimum RH-90 using hot dipped galvanised sections exposed surfaces with pre-coated capping main tee of size 24x32x0.27mm at every 1200mm c/c maximum and rotary stiched cross tee of size 24x27x0.27mm at every 600mm c/c and sub cross tee of size 24x27x0.27mm at every 1200mm c/c and wall angle of size 19x19x0.35mm fixed to the periphery of the wall. The above grid is suspended at every 1200mm c/c in both directions using 12 guage pre straightened GI wire and 6x50mm anchor fasteners, providing and laying tegular adged 600x600x15mm ceiling tiles, fixing with necessary screws/bolts, drilling holes in ceiling, floor or walls, fixing with anchor fasteners wherever required, butterfly clips, hold down clips, hanger rods, applying jointing compound, sand papering, cutting panels to required size, providing extra frame work around openings etc. complete as per drawing, specifications and as directed by Engineer-in-Charge.	1300.00	Sqm	INR		0.00	INR Zero Only
68.00	Providing & Fixing at all heights, preferred make Galvanized steel Clip in Tile <b>Plain/ Perforated False Ceiling module of 600 mm x 600 mm.</b> with square edged Panels made out of 0.5mm thick perforated sheet having perforations of 2 mm dia at 7 mm c/c in diagonally/2.5 mm dia 5 mm c/c in square pattern Galvanized steel panel size of 600mm x 600 mm manufactured by preferred make and Pre treated/powder coated panel shall be oven baked through conversion coating, priming and finish coat ensuring superior adhesion & painted on both sides, inside surface with primer of 5 microns and exposed surface to have 20 microns in pre painted sheet/ in powder coating or perforated panel shall be 50 microns approved colour powder coated only in exposed surface, the panel end shall be raised upward by 31mm and snapped in to the carrier. The main carrier shall be of size 0.45 mm thick , 25mm height and 3000mm length. The GI hold angle 1.15 mm thick of size 95mmx12mm, pressure clip 1.20mm thick 35mmx 30mm, top and Bottom of 4m system as per the requirements, transportation, cost of all labours, scaffolding if necessary, machinery, tests, chipping of walls, beams, columns, rectification of plaster, painting if required etc. and as directed by EIC, Including the cost of providing and fixing float glass panes of 5.0 mm thickness and/or 12 mm thick particle board as directed by EIC.(wherever required) with P	1400.00	Sqm	INR		0.00	INR Zero Only
69.00	Providing, fabricating, supplying and erecting factory made single/double leaf metal flush door insulated with polyurethane foam (density of PUF shall be min 30 kg/m³) of preferred make consisting of 1.5 mm galvanised pressed steel frame of size 105mm x 57mm with suitable stiffeners and 1mm prime quality galvanised pressed steel shutter including fixing of frame with preferred make heavy duty anchor fastner, minimum 35mm thick shutter with necessary stiffeners for hardware, with applying a coat of two pack epoxy primer and two coats of polyurethane paint or powder coated above etc. complete including providing & fixing vision panel using 4mm plain glass, aluminum/CPMS fittings, fixtures heavy duty Stainless steel hinges, preferred make door closure and locking arrangements with screw and check for correctness of recesses and stiffening plates for all fittings & fixtures including the cost of grouting the hollow portion of door frame with cement concrete 1:2:4 or PUF filling etc. complete as per specificationm dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing ex	130.00	Sqm	INR		0.00	INR Zero Only

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70.00	Providing and fixing factory made 30 mm thick pre laminated PVC door shutter (conforming to IS: 4020) with PVC door Frame (Choukhat) of preferred make consisting of followings :	7.00	Sqm	INR		0.00	INR Zero Only
70.10	1. PVC door frame of size 50x47mm with wall thickness of 5mm, made out of extruded 5mm thick rigid PVC foam sheet, mitred ar corners and joined with 2nos. 150mm long brackets of 15x15 mm M.S. square tube, the vertical door frame profiles to be reinforced with 19x19 mm M.S. square tube of 19 gauge, rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100 mm size, complete as per manufacturer's specifications and as directed by Engineer-in-Charge.						
70.20	2. PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and of size 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacturer, M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 95 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2 ) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, panelling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing extra fram work around openings for duct, supply/return air grill, electrical by EIC, Including the cost of providing and fixing float glass panes of 5.0 mm thickness and/or 12 mm thick particle board as directed by EIC.(wherever required) with PVC/Neoprene Gasket Lining and mosquito net jali ( SS Jali of 28 guage ) in one panel of window etc. c						
71.00	Providing and fixing in position anodized (min of grade AC 5) / powder coated (min 50 microns) <b>Aluminum three track sliding windows with mosquito net</b> etc., using aluminum alloys extruded section as per approved make confirming to IS: 733 and IS: 1285. The outer frame shall be of extruded aluminum verticle and horizontal rectangular sections of minimum size 92.00 x 36.00 x 0.90 mm thick, Bottom track sections of minimum size 92.00 x 31.00 x 1.50 mm thick, top & side members 92.00 x 31.00 x 1.50 mm thick and aluminum sections for frame of window sliding panels for top, bottom, verticle & interlocking members of minimum size 40.00 x 18.00 x 1.55 mm thick, including providing and fixing concealed type heavy duty (metal - body, hook & bracket) locking arrangement of approved shade and make, heavy duty roller (smoother carbon steel bearing type), PVC liner, aluminum angle cleats, S.S bearings, C.P. brass screws / stainless steel screws, mastic filling, nuts, washers, Rawl plugs, aluminum packing strips used for ann dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing extra fram work around openings for duct, supply/return air grill, electrical fittings, smoke detectors, fire alarm systems, voided arrangement for inspections etc. all complete as per drawings, specifications and as directed by Engineer-in-charge.						

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71.10	With powder coated aluminum section (min 50 microns) of approved shade	70.00	Sqm	INR		0.00	INR Zero Only
72.00	Providing and fixing in position anodized (min of grade AC 5) / powder coated (min 50 microns) <b>Fixed window</b> with extruded and integrated aluminum sections as per approved make conforming to IS: 733 and IS: 1285 aluminum beading, PVC lining, CP brass / stainless steel screws, mastic filling, nuts, washers etc. complete including cost of <b>4mm thick float glass</b> , Neoprene gasket, scaffolding if necessary, chipping of walls, beams, columns, rectification of plaster, painting if required etc. complete as per specifications and as directed by Engineer-in-Charge.						
72.10	With powder coated aluminum section (min 50 microns) of approved shade	15.00	Sqm	INR		0.00	INR Zero Only
73.00	Providing and fixing in position <b>anodized (min of grade AC 5) aluminum louvered ventilators</b> using aluminum alloys extruded section as per approved make confirming to IS: 733 and IS: 1285. The outer frame shall be of extruded aluminum verticle and horizontal rectangular sections of minimum size 44.0x46.0x1.40 mm thick with adjustable louvers clips on both vertical side to hold and rotated 4mm thick bajri glass strip louvers, C.P. brass screws / stainless steel screws, mastic filling, nuts, washers, Rawl plugs, aluminum packing strips used for anchoring system as per the requirements, transportation, cost of all labours, scaffolding if necessary, machinery, tests, chipping of walls, beams, columns, rectification of plaster, painting if required etc. and as directed by EIC. Including providing and fixing bajri glass of 4.0 mm thickness etc. complete as directed by EIC.	3.00	Sqm	INR		0.00	INR Zero Only
74.00	Providing and fixing in position anodized (min of grade AC5) / powder coated (min 50 microns) <b>aluminum doors</b> with extruded and integrated aluminum sections as per approved make conforming to IS: 733 and IS: 1285 aluminum beading, PVC lining, CP brass / stainless steel screws, mastic filling, nuts, washers etc. complete including scaffolding if necessary, chipping of walls, beams, columns, rectification of plaster, painting if required. Vertical and middle horizontal section of door shall be min 80 mm x 44 mm and of thickness minimum 1.8 mm. Top and bottom horizontal section of door shall be min 120 mm x 44 mm and of thickness minimum 1.8 mm Snap beading shall be minimum 0.41 mm thick. Cleat angles shall be minimum 25 x 25 mm and thickness 1.8 mm, including p/f 5.0mm thick clear sheet glass and/or opaque using 12mm thick laminated particle board. complete as per specifications and as directed by Engineer-in-Charge.						
74.10	<b>Powder coated aluminum (min powder coating of 50 microns) doors</b> , fully glazed with 4 mm thick glass or opaque using 12mm thick laminated particle board and the vertical members are internally braced with 12mm dia MS long bolt, SS handle on both sides as approved, floor spring/door closer of Godrej make, concealed tower bolts, locking arrangements using SS aldorp 16mm dia and 300mm long etc complete as per specifications and as directed by Engineer-in-Charge.	15.00	Sqm	INR		0.00	INR Zero Only

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
75.00	Providing and fixing in position anodized (min of grade AC 5) / powder coated (min 50 microns) <b>Aluminum sliding door</b> fully glazed with glass or opaque using laminated board etc., using aluminum alloys extruded section as per approved make confirming to IS: 733 and IS: 1285. Vertical and middle horizontal section of door shall be min 80 mm x 44 mm and of thickness minimum 1.8 mm. Top and bottom horizontal section of door shall be min 120 mm x 44 mm and of thickness minimum 2 mm Snap beading shall be minimum 0.90 mm thick. Cleat angles shall be minimum 25 mm x 25 mm and thickness 1.8 mm, Horizontal section of door for handling roller shall be min 63 mm x 38 mm and of thickness minimum 1.85 mm, Channel section for roller shall be minimum 38 mm x 38 mm and thickness of 1.75 mm, Snap beading shall be minimum 0.41 mm thick., including providing and fixing locking arrangement for lock, heavy duty roller, C.P. brass screws / stainless steel screws, nuts, washers, Rawl plugs, aluminum packing strips used for anchoringm dia GS rod shall be round. The top end shall be screwed to slab/ roof and bottom shall be fixed with screw to hold on angle, providing extra fram work around openings for duct, supply/return air grill, electrical fittings, smoke detectors, fire alarm systems, voided arrangement for inspections etc. all complete as per drawings, specifications and as direc						
75.10	Aluminium Sliding door with powder coated aluminum section (min 50 microns) of approved	20.00	Sqm	INR		0.00	INR Zero Only
75.20	<b>Applicable for both the above items - Specifications of glass</b> :- clear sheet glass/float glass of approved make and of 4mm thickness fixed to aluminum partitions with edges chamfered (wherever required) with PVC/Neoprene Gasket Lining etc. complete. <b>Specifications of laminated board</b> :- 12 mm thick both side laminated particle board of approved exterior grade - 1, Type II confirming to IS 12823 bonded with Phenol Formaldehyde Resin (Novapan/ECO board or any other approved equivalent) in doors using necessary approved standard aluminum beadings including wastages, if any, fixing to existing framework with C.P. brass / stainless steel screws as required and other incidental charges etc. complete as per specifications and as directed by Engineer-in-Charge.						
76.00	Providing and fixing in position anodized (min of grade AC 5) / powder coated (min 50 microns) <b>wall span</b> with extruded and integrated aluminum sections as per approved make conforming to IS: 733 and IS: 1285 aluminum beading, PVC lining, CP brass / stainless steel screws, mastic filling, nuts, washers etc. complete including cost of p/f 5mm thick float glass and/or opaque using 12mm thick laminated particle board, scaffolding if necessary, chipping of walls, beams, columns, rectification of plaster, painting if required. Vertical and horizontal section of wall spans shall be min 63 mm x 38 mm and of thickness minimum 1.85 mm. Snap beading shall be minimum 0.41 mm thick. Cleat angles shall be minimum 25 x 25 mm and thickness 2 mm. The spacing of verticle and horizontal sections shall be in the range of 0.90 m to 1.50 m centre to centre.						
76.10	With powder coated aluminum section (min 50 microns) of approved shade	60.00	Sqm	INR		0.00	INR Zero Only
77.00	Providing, Hoisting and installing at required elevation moulded three layer HDPE cylindrical vertical water storage tanks of preferred make of the following capacities with suitable S.M. C. cover at top including the cost of labour for making hole in the storge tank for inlet, outlet, scour and overflow, providing and fixing necessary GI nipples ranging from 15mm to 50 mm n.b. of average 150mm length with double check nuts, washers, 25mm dia. ball valve (brass) with brass spindle of preferred make, quality etc. complete.						

Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other	RATE In Figures To be entered by the Bidder in	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
77.10	1000 litres capacity HDPE water storage tank	4.00	Each	INR		0.00	INR Zero Only
78.00	Providing, laying, jointing, fixing, testing and painting as per colour code of heavy quality (Class C) M.S. Galvanised pipes as per IS:1239 of preferred make including fittings like elbows, collars, tees, unions, couplings, reducers, enlargers, bends and all other fittings, required for the completion except screwed flanges conforming to IS:1239 and also as per the code of practice of water supply in buildings of IS: 2065 including testing the pipes & fittings for 10kg/sqcm pressure for a minimum period of two hours duration with clean & potable water, including cutting to waste of pipes, threading, cost of all jointing materials like hemp yarn, white or red lead, painting with two coats of anti-corrosive bitumastic paint for under portion & oil paint for exposed portion over a coat of primer, clamps, wooden gutties, screws, cement, sand etc. complete as per specifications and as directed by Engineer-in-Charge.						
78.10	40mm n.b.	20.00	Rm	INR		0.00	INR Zero Only
78.20	50mm n.b.	60.00	Rm	INR		0.00	INR Zero Only
79.00	Providing, laying, jointing, fixing and testing <b>CPVC pipes of grade SDR - 11</b> as per IS:15778 including CPVC plain & brass threaded fittings like elbows, collars, tees, unions, couplings, reducers, enlargers, bends, CPVC MTA, FTA and all other fittings required for the completion, having thermal stability for hot & cold water supply and also as per the code of practice of water supply in buildings of IS: 2065 including laying under the floors, chasing in walls, roof slabs and making good the same to the original conditions, including fixing the pipe with clamps at 1m spacing, cost of all jointing materials like hemp yarn, white or red lead, clamps, wooden gutties, screws, cement, sand etc. complete testing the pipes with clean water as per specifications.						
79.10	20 mm nominal size	100.00	Rm	INR		0.00	INR Zero Only
79.20	25 mm nominal size	80.00	Rm	INR		0.00	INR Zero Only
79.30	32 mm nominal size	140.00	Rm	INR		0.00	INR Zero Only
79.40	40 mm nominal size	100.00	Rm	INR		0.00	INR Zero Only
80.00	Providing, laying, fixing and testing <b>HDPE pipes of Class PE100 of approved brands for sewerage</b> as per IS 14333: 1996 ensuring thermal stability for waste water, sewage, acids etc. including all HDPE fittings including jointing with Butt welding including testing the pipes at a pressure of 6 Kg per Sq cm etc. complete as per drawing, specifications and as directed by the Engineer-in Charge.						
80.10	110mm OD HDPE pipes	50.00	RM	INR		0.00	INR Zero Only
80.20	160mm OD HDPE pipes	150.00	RM	INR		0.00	INR Zero Only
80.30	<b>Note:</b> The measurement shall be taken along the centre line of pipes & fittings or specials as laid from inside of one manhole to the inside of other manhole.						
81.00	Providing and fixing in position best HDPE/Salt Glazed Stoneware <b>Gully Trap</b> with 150mm x 150mm square inlet and 100mm n.b. outlet conforming to IS : 651 including embedding the trap in 1:3:6 cement concrete, 150mm x 150mm C.I. grating at top, constructing brick masonry chamber 300mm x 300mm (internal) in 200mm thick brick masonry using IInd class bricks, embedding the trap plastering with cement mortar 1:4, 20mm thick inside, outside and all exposed faces, finished with a floating coat of neat cement, providing and fixing C.I. frame and hinged cover weighing not less than 7kg, painting the grating, frame and cover with two coats of approved bitumastic paint etc. complete as per specifications and as directed by Engineer-in-Charge.	6.00	Each	INR		0.00	INR Zero Only

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82.00	Construction of <b>Inspection Chambers of internal clear dimension 900x600mm</b> in 200mm thick brick masonry using IInd class bricks in cement mortar 1:6 over a bed of 150mm thick 1:3:6 cement concrete foundation, plastering with cement mortar 1:4, 20mm thick on inside, outside and all exposed surface finished with a floating coat of neat cement, 1:2:4 cement concrete for benching and channel finished with net cement, brick corbelling at top to provide clear opening of 900mm x 450mm, providing and fixing C.I. steps weighing not less than 3.5 kg/each at 300mm centre to centre etc. complete - depth of chamber not exceeding 900mm.	6.00	Each	INR		0.00	INR Zero Only
83.00	Supplying, transporting to work site scattered at various locations of RRCAT premises and placing in proper position locally available readymade <b>medium duty Precast RCC covers</b> with frames generally as per IS:12592 of following specified clear sizes including minor cutting, dressing, aligning to fit properly, levelled in existing manhole or inspection chambers or gully trap chambers including rigidly embedding the frame in 100mm thick CC 1:2:4 complete including cost of all materials, labourers, taxes, cess, transport, curing, wastage etc. complete as per specifications and as directed by Engineer-in-Charge.						
83.10	Rectangular shape 900mm x 600mm internal dimensions	6.00	Each	INR		0.00	INR Zero Only
84.00	Providing & fixing <b>EUROPEAN WATER CLOSET</b> suite comprising of :	6.00	Each	INR		0.00	INR Zero Only
84.10	a. White vitreous china pedestal type water closet (European type W.C. pan) in vitreous Chinaware with internal 'P' or 'S' trap conforming to IS: 2556 Strap preferred make.						
84.20	b. PVC, low level flushing cistern 10 litres capacity of preferred, mounted brackets with double syphonic pattern and all internal fittings conforming to IS: 7231.						
84.30	c. 15mm n.b. heavy quality P.V.C. inlet connection with brass unions connected at ends.						
84.40	d. 15mm n.b. screw down heavy quality, fancy variety C.P. brass Two nos. stop cock of preferred make. conforming to IS:8931.						
84.50	e. Solid plastic heavy quality seat with lid of preferred make and colour with C.P brass pillar hinges, conforming to IS :2548 (Part I and II)						
84.60	f. Health faucet (Hand Shower) with 8mm dia. 1.2 metre long Flexible tube & wall hook of preferred make .						
84.70	g. Jet spray (butterfly) with 1.00m long heavy quality PVC tube & nozzle of preferred make						
85.00	Providing and fixing heavy quality fancy variety Two way bib tap of C.P. brass screw down 15mm n.b. Bib taps of approved make confirming to IS:8931 on G.I. pipe line	6.00	Each	INR		0.00	INR Zero Only
86.00	Providing & fixing in position finished <b>C.P. brass coat hangers of preferred make</b> satin finish with nettle fold screws etc. complete as per drawings, specifications and as directed and approved by Engineer-in-Charge.	12.00	Each	INR		0.00	INR Zero Only
87.00	Providing and fixing large flat back half stal <b>Urinal</b> of size 610mmx400mmx380mm of preferred make supported on suitable wall brackets with 32mm n.b. heavy quality preferred make C.P. brass bottle trap with extension piece and wall flange suitable heavy quality C.P. brass waste coupling including C.P. dome grating etc. etc. complete as per drawings, specifications and as directed by EIC. as per specifications.	8.00	Each	INR		0.00	INR Zero Only
88.00	Providing and fixing 15mm n.b. heavy quality C.P. brass flushing valve of preferred make or approved make on G.I. line for flushing urinals of approved quality etc. all complete as per specifications.	8.00	Each	INR		0.00	INR Zero Only

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89.00	Providing and fixing best quality approved colour and shade <b>GRANITE PARTITION slab</b> 14 to 15 mm thick and of size 1000mm x 650mm, polished on both sides, machine cut edges with rounded exposed corners including fixing in wall after cahsing with cement mortar or adhesive in proper level and line etc. all complete as per specifications and drawings.	6.00	Each	INR		0.00	INR Zero Only
90.00	Providing and fixing 15mm n.b. quarter turn fancy variety heavy quality C.P. brass two way angle cock of preferred make conforming to IS : 781. complete as per drawing, specifications and as directed by the Engineer-in-Charge.	18.00	Each	INR		0.00	INR Zero Only
91.00	Providing & fixing best quality <b>wash basin</b> of size 550mm x 400 mm with plain rims, comprising of :	14.00	Each	INR		0.00	INR Zero Only
91.10	a. Best Indian make wash basin in white glazed vitreous chinaware of conforming to IS:2566 Part IV supported on suitable wall brackets and of size mentioned above.						
91.20	b. One number heavy quality 15mm n.b. C.P. brass pillar cock with jam nut of easy clean variety of conforming to IS: 1795						
91.30	c. One number 15 mm n.b. heavy quality PVC inlet connection with brass union connection with brass solder joints at ends.						
91.40	d. One number 15mm n.b. screw down heavy quality, fancy variety C.P. brass stop cock of preferred make.						
91.50	e. One number 32 mm n.b. heavy quality C.P. brass waste coupling with rubber plug and C.P. chain.						
91.60	f. One number 32 mm C.P. BRASS heavy quality BOTTLE trap of preferred make with extension piece and wall flange etc. etc. complete as per drawings, specifications and as directed by EIC. of Dripless type.						
92.00	Providing & fixing best quality <b>Laboratory Sinks</b> of size mentioned below, comprising of :						
92.10	a. Best quality white glazed vitreous chinaware sinks of size mentioned below of approved nake with integral overflow weir at end, supported on a pair of white enamel painted C.I. brackets, conforming to IS : 771 part - 2.						
92.20	b. One number suitable C.P. brass waste heavy quality with rubber plug and C.P. chain. Including C.P. brass union.						
92.30	c. One number suitable C.P. brass heavy quality bottle trap with extension piece and wall flange etc. complete of dripless of approved equivalent.						
92.40	Vitreous china Laboratory Sink of size <b>600mm X 450mm x 200mm</b>	10.00	Each	INR		0.00	INR Zero Only
93.00	Providing and fixing heavy quality C.P. brass screw down 15mm n.b. <b>SWAN NECK TAP</b> of preferred make or approved make confirming to IS:8931 on G.I. pipe line	10.00	Each	INR		0.00	INR Zero Only
94.00	Providing and fixing in position readily available <b>mirror of size 600x450</b> mm made out of best quality indian glass of 5mm thick, manufactured by approved make mounted on PVC decorative frame fixed in position with C.P. brass screws with rawl plugs etc. complete.	24.00	Each	INR		0.00	INR Zero Only
95.00	Providing and fixing C.P. brass <b>Toilet pape roll Holder</b> , fixing on wall using C.P. brass screws, rawl plug etc all complete.	6.00	Each	INR		0.00	INR Zero Only
96.00	Providing and fixing C.P. brass <b>Towel rods</b> of make preferred make of size 600mm long x 19±1mm with a wall flanges fixing on wall using C.P. brass screws, rawl plug etc all etc. complete as per drawings, specifications and as directed by EIC..	24.00	Each	INR		0.00	INR Zero Only

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97.00	Providing and fixing heavy quality C.P. brass screw down 15mm n.b. <b>Bib taps</b> of preferred make on G.I. pipe line conforming to IS:781	6.00	Each	INR		0.00	INR Zero Only
98.00	Providing and fixing in position liquid <b>soap dispenser</b> of preferred make with C.P. brass brackets, cap etc. fixed to wall with C.P. screws and rawl plugs all etc. complete as per drawings, specifications and as directed by EIC..	24.00	Each	INR		0.00	INR Zero Only
99.00	Providing and fixing <b>HDPE/CPVC Floor trap</b> of self cleansing design with 75mm outlet having a minimum water seal of 50mm with stainless steel grating on top of preferred make including necessary 1:2:4 cement concrete for embedding the trap etc. as per specifications all complete.	24.00	Each	INR		0.00	INR Zero Only
100.00	Providing & fixing in position heavy pattern screw down gun metal <b>GATE VALVES</b> conforming to IS : 778 with hand wheel at top, including testing for 10kg/cm <sup>2</sup> pressure with clean & potable water with a minimum testing duration of two hours etc. complete.						
100.10	25mm n.b.	4.00	Each	INR		0.00	INR Zero Only
100.20	32mm n.b.	6.00	Each	INR		0.00	INR Zero Only
100.30	40mm n.b.	4.00	Each	INR		0.00	INR Zero Only
101.00	Supplying, lowering, laying, <b>RCC Socket &amp; Spigot (S&amp;S) spun pipes</b> (Class NP2) of IS : 458 with necessary collars, laid to correct grade and levels at all depths including cutting to length, jointing with hemp yarn and C.M. 1:1, caulking the joints and finishing, curing, testing etc. complete.						
101.10	150 mm n.b.	400.00	Rm	INR		0.00	INR Zero Only
101.20	300 mm n.b.	400.00	Rm	INR		0.00	INR Zero Only
102.00	Providing & fixing in position 50mm thick heavy density <b>THERMOCOLE</b> (density not less than 18kg/m <sup>3</sup> ) in ceilings for under deck insulation at all heights, tying thermocole to ceiling with 10 G G.I. wire including cutting to required size, sticking with bitumen & sealing the joints with approved bitumastic compound etc. complete including cost of all materials and labours involved for complete work etc. as per specification.	500.00	Sqm	INR		0.00	INR Zero Only
103.00	Providing, fabricating and erecting S.S. tube railing of 304 Grade comprising 50mm dia. & 16 gauge thick S.S. single pipe for top and 25mm dia. double member for vertical, providing and fixing runner pipes of 19mm dia. S.S on middle in three rows including providing and fixing bottom and end caps as per approved design on the top & end of the members, buffing of welded surfaces, cutting, welding the joints, grinding/muffing if necessary etc. complete.	100.00	RM	INR		0.00	INR Zero Only

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104.00	Providing, transporting, lowering and laying in position at site at required depth on prepared foundation concrete beds ready made PVC Septic Tanks of following Capacities made of approved make with in built standard manhole cover, provision for 150mm dia. inlet & outlet, 80mmdia. vent within the tank, construction of brick masonry chamber up to ground level from septic tank of internal clear size 600x600mm in brick masonry with cement mortar 1:6 raised up to ground level, plastering of the Chamber with cement mortar 1:4, 20mm thick on inside, outside and all exposed surfaces, finished smooth with neat cement punning including providing & fixing C.I. steps weighing not less than 3.5Kg/each at 300mm c/c of the chamber, depth not exceeding 1000mm etc. complete, including the cost of 1 nos. of 80mm dia. PVC vent pipe about 3.0m long embedded in PCC 1:2:4 bed of 450mmx450mmx300mm and projecting 2m above ground level and terminating with PVC cowl at top and providing and fixing 150mm dia. PVC tee etc. complete.						
104.10	PVC Septic tank of PWTS-AM-0200-01 of 2000 liters capacity	1.00	Each	INR		0.00	INR Zero Only
105.00	Providing, fabricating, installing and fixing in positopn 4mm thick aluminium composite panels of required sizes over aluminium frame work for ceiling, masking, fascia, cladding etc. for linear as well as curvilinear shape for all heights and levels, consisting of aluminium section of size 50x25x2mm thick rectangular tubes for frame work including cutting the members to required size, fixing by aluminium angle cleats of size 50x50x2mm to horizontal & vertical members placed @ 600mm & 1200mm respectively as per design requirement, fixing the aluminium frame secured to walls, floors and ceiling/hang to existing frame work.The frame menbers shall be cladded by using 4.0mm thick prime quality aluminium composite panels of approved shade made out of 3mm thick FR grade mineral core sandwiched between two aluminium sheets (each 0.5mm thick) manufactured by approved make, using 3M VHB tape and sealent (No. 789 of approved make) including all fittings and fixtures necessary for fixing panels, screws/rivets, G.I. wire system as per the requirements, transportation, cost of all labours, scaffolding if necessary, machinery, tests, chipping of walls, beams, columns, rectification of plaster, painting if required etc. and a	200.00	Sqm	INR		0.00	INR Zero Only
106.00	Cement plaster 20mm thick in skirting and risers to steps with cement mortar 1:3 finished with a coat of neat cement including rounding of junctions with floor where necessary curing etc. complete.	60.00	Sqm	INR		0.00	INR Zero Only
107.00	Providing & fixing in position Precast Cement Concrete Jalli, 75 mm thick of approved design & pattern of approx size 300 mm x 300 mm/600mmx600mm using RCC 1:1.5:3 including the cost of formwork & MS reinforcement as per specifications set in C M 1:3, close jointed and pointed with Cement paste including finishing the surface smooth, curing, hoisting & erecting in position etc. complete.	160.00	Sqm	INR		0.00	INR Zero Only

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108.00	Providing and fixing in position at all levels, elevation and heights frameless fixed glazing units using specially designed aluminum alloy extruded channel section 20 × 25 × 2 mm thick. The extruded aluminum sections shall be finished with electrolytic bronze color anodizing of minimum thickness of 5 micron. Providing and fixing in position 12 mm thick toughened glass (clear/frosted), using structural grade weather sealant, connectors as required for fixing of glass including cost of all materials required to complete the work, labours, machinery, fabrication, tests, scaffolding if necessary, chasing in the floor, chipping of walls, beams, columns, rectification of painting if required, transportation etc., complete required for completion of works as per drawings, specifications and as directed by Engineer-in-Charge.	150.00	Sqm	INR		0.00	INR Zero Only
109.00	Providing and fixing in position at all levels, elevation and heights frameless glass door shutter using 12 mm thick toughened glass (clear/frosted) using SS patch fittings like top and bottom patch, floor pivot bearing double action floor spring suitable for 100 kg – 12 mm thick toughened glass door, 90 degree hold open, fixing arrangement and making necessary holes etc. for fixing required door fittings, including providing and fixing in position of size 25 mm dia., 450 mm long stainless steel handles on both side of shutters, corner lock patch with EPC and strike plate, connectors as required, including cost of all materials required to complete the work, labours, machinery, fabrication, tests, scaffolding if necessary, chasing in the floor, chipping of walls, beams, columns, rectification of plaster, painting if required, transportation etc., complete required for completion of works as per drawings, specifications and as directed by Engineer-in-Charge.	15.00	Sqm	INR		0.00	INR Zero Only
110.00	Fabrication, supply and fixing of extruded aluminum alloy double wall remote control rolling shutters with side one operator drive unit and direct drive option, conforming to IS 6248 (1979). Extrusion for the components of rolling shutters shall be conforming to 53000 (NE5) or 64430 (HE30) of IS:733 etc., complete as per drawings, specifications and as directed by Engineer-in-Charge.	50.00	Sqm	INR		0.00	INR Zero Only
111.00	NOTE: Curtain shall be built up from interlocking lath sections of aluminum alloy conforming to 53000 (NE5) or 64430 (HE30) of IS:733. The thickness of lath sections for curtains shall not be less than 18 gauge (1.25 mm) section, with nominal profile height as 78 mm ± 0.05 mm. The lath section shall have interlocking curls at both edges and a deep corrugation at the centre with a bridge depth of 16 mm to provide sufficient curtain stiffness for resisting manual pressure and normal wind pressure. Each lath section shall be continuous single piece without any welded joint. When interlocked, the lath section shall have a distance of nominal 75 mm between rolling centres. The lock plate provided at the bottom of the shutter shall be composed of a mild steel plate not less than 3.15 mm thick, reinforced with mild steel angle not less than 35 × 35 × 5 mm at bottom of the plate. The lock plate shall also be provided with pulling handles, one handle for 2.5 m width and 2 handles for widths above 2.5 m. Guide channels system as per the requirements, transportation, cost of all labours, scaffolding if necessary, machinery, tests, chipping of walls, beams, columns, rectification of plaster, painting if required etc. and as directed by EIC, Including the cost of providing and fixing float glass panes of 5.0 mm thickness and/or 12 mm thick particle board as directed by EIC.(wherever required) with PVC/Neoprene Gasket Lining and mo						

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111.10	Providing and fixing Roller blind with black out curtain of preferred make in required pattern, including cost of all materials, Logo priting if required and labour involved for complete work etc. All complete as per drawing, spcifications and as directed by Engineer-in-charge.	110.00	Sqm	INR		0.00	INR Zero Only
112.00	Filling under floors, with screened selected Sand including spreading, watering, ramming consolidating, finishing to levels etc. complete	10.00	Cum	INR		0.00	INR Zero Only
113.00	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to wet mix macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, etc. all complete as per specifications and as directed by Engineer-in-Charge.	300.00	Cum	INR		0.00	INR Zero Only
114.00	Providing and fixing in position 12mm thick MR grade plywood confirming to IS 303 over existing frame work or brick wall with steel screw suitably space not more then spaced 600 c/c to required shape and size complete as per drawing, specifications and as directed by Engineer in charge.	20.00	Sqm	INR		0.00	INR Zero Only
115.00	Providing and fixing in position 18mm thick MR grade plywood confirming to IS 303 over existing frame work or brick wall with steel screw suitably space not more then spaced 600 c/c to required shape and size complete as per drawing, specifications and as directed by Enginner in charge.	30.00	Sqm	INR		0.00	INR Zero Only
116.00	Providing and fixing in position 6mm thick MR grade plywood confirming to IS 303 over existing frame work or brick wall with steel screw suitably spaced not more than 600 c/c to required shape and size complete as per drawing, specifications and as directed by Enginner in charge.	15.00	Sqm	INR		0.00	INR Zero Only
117.00	Providing and fixing in position 4 mm teak veneer of approved shade & texture pasted with suitable approved adhesive over existing ply base including preparing the surface complete as per drawing, specifications and as directed by Engineer in charge.	25.00	Sqm	INR		0.00	INR Zero Only
118.00	Providing and fixing in position 1 mm thick high glossy/decorative/textured/matt finished laminates of approved manufacturers, pasted with suitable approved adhesive over existing ply base including cleaning and preparing the surface complete as per drawing, specifications and as directed by Engineer in charge.	20.00	Sqm	INR		0.00	INR Zero Only
119.00	Forming embankments upto an average height of 1.5m above ground level with selected approved soil, in layers not exceeding 150mm thick including breaking clods, watering, rolling each layer with 1/2 tonne roller or wooden of steel rammer and rolling every 3rd and top most layer with power roller of minimum 8 tonnes capacity to attain at least 90% of the proctor density, dressing the sides and top to the required profile and grade etc. complete.						
119.10	With approved quality murrum available from excavations within RRCAT premises by mechanical transport.	600.00	Cum	INR		0.00	INR Zero Only
120.00	Proof rolling with 8/10 ton power roller over sub-base of the road to achieve proper consolidation including watering etc.	1125.00	Sqm	INR		0.00	INR Zero Only
<b>Total in Figures</b>						<b>0.00</b>	<b>INR Zero Only</b>
<b>Quoted Rate in Words</b>						<b>INR Zero Only</b>	