

SCHEDULE OF ITEMS

NIT No. :NID/08/ 2025-26 dated 05.08.2025

Name of the work: Tender for “Empanelment of contractors for Annual Contract for “Miscellaneous Civil works at NID Campus, (Ahmedabad & Gandhinagar)”. (Including labour, materials, tools, plants, scaffolding etc. complete)”

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
A	<u>EARTH WORKS</u>			
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means for all lift and leads including getting out the excavated soil and disposal of surplus excavated soil out side NID campus or as directed by NID: All kind of soil	1	Cum	
2	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil outside campus : All kinds of soil : Pipes, cables etc, up nto 600 mm dia.	1	metre	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	1	Cum	
4	Supplying & stacking and filling in plinth with earth under floors and open ground area, including watering, ramming, consolidating and dressing complete. (earth measured in stacks will be reduced by 20% for payment)	1	Cum	
5	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. (Plinth area multiplied by depth of filling shall be measured for quantity calculation & payment)	1	Cum	
6	Surface dressing of the ground including removing vegetation and inequalities and disposal of rubbish outside campus upto any lead and lift : All kinds of soil.	1	Sqm	
B	<u>CONCRETE WORKS</u>			
7	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering and removal of form work after concreting - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand(zone-III) : 4 graded stone aggregate 20 mm nominal size)	1	Cum	
8	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering and removal of form work after concreting - All work up to plinth level 1:4:8 (1 Cement : 4 coarse sand(zone-III) : 8 graded stone aggregate 40 mm nominal size).	1	Cum	
9	Providing and laying cement concrete in slabs, beams, lintels, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to 6th floor , including the cost of centering, shuttering and removal of form work after concreting: 1:1½:3 (1 cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	1	Cum	
10	Providing and fixing at or near ground level precast cement concrete in kerbs, edgings, lintels, slabs, sills etc. as per approved pattern and setting in position with cement mortar 1:3 (1 Cement : 3 coarse sand), including the cost of required centering shuttering and removal of form work after concreting complete. : 1:1½:3 (1 Cement : 1½ coarse sand(Zone III) : 3 graded stone aggregate 20 mm nominal size).	1	Cum	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
C	<u>RCC WORKS</u>			
11	Providing and laying in position specified grade of reinforced cement concrete, including the cost of centering, shuttering and removal of form work after concreting - All work up to plinth level : (a) : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	1	Cum	
12	Reinforced cement concrete work in slabs, beams, columns, pillars, piers, abutments, posts and struts, staircase, fins, louvers, walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets etc. above plinth level up to 6th floor including cost of centering, shuttering and removal of form work after concreting: 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	1	Cum	
13	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto 6th floor : Thermo-Mechanically Treated bars of approved brand	1	Kg	
14	Smooth finishing of the exposed surface of concrete / R.C.C. / masonry work up to 6th floor with 6 mm to 12 mm thick cement mortar 1:3 (1 Cement : 3 fine sand)	1	Sqm	
15	Plaster drip course / groove/ chamfer in plastered surface or moulding to Concrete / R.C.C. / Masonry projections up to 6th floor with 6 mm to 12 mm thick cement mortar 1:3 (1 Cement : 3 fine sand).	1	metre	
16	Providing and laying in position machine batched and machine/ready mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying including the cost of centering, shuttering and removal of form work after concreting , and including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of NID. All works up to plinth level.	1	Cum	
17	Providing and laying in position machine batched and machine/ready mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying including the cost of centering, shuttering and removal of form work after concreting , and including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of NID. All works above plinth level up to 6th floor.	1	Cum	
D	<u>BRICK WORKS</u>			
18	Brick work with common burnt clay F.P.S. (non modular) bricks below plinth level and superstructure above plinth level up to 6th floor in all shapes and sizes in : Cement mortar 1:6 (1 cement : 6 coarse sand)	1	Cum	
19	Half brick masonry with common burnt clay F.P.S. (non modular) bricks below plinth level and superstructure above plinth level up to 6th floor in : Cement mortar 1:4 (1 cement : 4 coarse sand)	1	Sqm	
20	Extra for providing and placing in position 2 Nos. 6mm/8mm dia. M.S. bars at every 5th course of half brick masonry.	1	Sqm	
21	Exposed half brick masonry with common burnt clay bricks including making horizontal and vertical grooves 10mm wide 12 mm deep complete upto to 6th floor complete in CM 1:4 (1 Cement : 4 coarse sand)	1	Sqm	
22	Exposed brick work for brick on edge / cladding works with common burnt clay bricks including making horizontal and vertical grooves 10mm wide 12 mm deep complete upto 6th floor in CM 1:4 (1 Cement : 4 coarse sand)	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
E	WOOD WORK			
23	Providing & Fixing Greenlam Sturdo brand Air Collection Whirl Type Washroom cubicle partitions as per size and dimensions shown on drawings and details, including 18mm thick self supporting compact laminates made out of Urea-free thermosetting phenolic resins treated kraft papers as core material and Amino Plastic resin decor paper on exposed outer surface conforming to latest applicable IS 2046-1995, EN 438-2016 and NEMA LD3-2005 quality standards with anti-bacterial, antifungal and antiviral properties. The item also includes complete installation - as per manufacturer's specifications - including all necessary hardware, fittings & accessories in SS 316 grade or as applicable, in true line, level and plumb. Laminate shade will be as selected & approved by the NID. The complete supply & installation will carry manufacturer's warranty period or 10 years whichever is later, for all heights up to 6th floor. For payment the length and height of cubicle partition shall be measured to get the cubicle partition area .	1	Sqm	
24	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part 1) decorative type, core of block board construction with frame of 1st class hard wood and well matched 1mm thick laminated sheet (Code Archide ply - warm grey 11022), Deep purple - 11058, Green - 11078, Red - 11032/18566 on both faces of shutters 32 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. Including leaping with 2nd class teak wood batten 25 mm minimum depth on all edges of flush door shutters, up to 6th floor, as per instruction of NID.	1	Sqm	
25	Providing wood work in frames of door, window clerestory windows and other frames, wrought frame and fixed in position with hold fast lugs or with dash fasteners of required dia & length) Second class teak wood (including with fast lugs and dash fasteners etc.) up to 6th floor.	1	Cum	
26	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with : 4.0 mm thick glass panes.	1	Sqm	
27	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows all complete with 5.5 mm thick glass panes.	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
F	<u>MARBLE AND GRANITE WORKS</u>			
28	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. including providing opening of required size & shape for wash basin/kitchen sink etc. all complete at all levels. Raj Nagar Plain white marble/ Udaipur green marble/ Z-Black/Telephonic black marble / Granite. Area of slab upto 0.50 sqm.	1	Sqm	
29	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. including providing opening of required size & shape for wash basin/kitchen sink etc. all complete at all levels. Raj Nagar Plain white marble/ Udaipur green marble/ Z-Black/Telephonic black marble/ Granite. : Area of slab over 0.50 sqm.	1	Sqm	
30	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. including providing opening of of required size & shape for wash basin/kitchen sink etc. all complete at all levels. Granite of any colour and shade. Area of slab upto 0.50 sqm	1	Sqm	
31	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. including providing opening of required size & shape for wash basin kitchen sink etc. all complete at all levels. : Area of slab over 0.50 sqm.	1	Sqm	
32	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by NID. : Marble work / Granite work	1	metre	
33	Mirror polishing on marble work/Granite work/Kotahstone work where ever required to give high gloss finish complete	1	Sqm	
34	Stone (polished) work for partition between urinials fixed to wall all complete. 15 to 18 mm thick Granite/Marble of any colour and shade.	1	Sqm	
G	<u>FLOORING WORKS</u>			
35	Brick on edge flooring with good quality bricks on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 1:4 (1 cement : 4 coarse sand)	1	Sqm	
36	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry and including the cost of nosing of steps etc. complete. Up to 6th floor 40 mm thick with 20 mm nominal size stone aggregate	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
37	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) : Up to 6th floor Thickness upto 20/25 mm thick : Size as per requirement at site - Brown polished Kota Stone	1	Sqm	
38	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) Up to 6th floor : Thickness upto 20/25 mm thick : Size as per requirement at site - Green polished Kota Stone	1	Sqm	
39	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete Up to 6th floor .	1	Sqm	
40	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by NID, in skirting, risers of steps and dados, over 12 mm thick bed and back coat of cement mortar 1:3 (1 cement : 3coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete	1	Sqm	
41	Providing and laying Ceramic glazed floor tiles of size 300x300 mm to 600mmx1200mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc. all complete.	1	Sqm	
42	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300mm to 600mmx1200mm (thickness to be specified by the manufacturer), of 1stquality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4(1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc. all complete.	1	Sqm	
43	Providing and laying Flooring of GVT / Ceramic tiles of approved make, brand and design upto 1200x600 mm size of 1st quality conforming to IS: 15622, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc or fixed with appropriate chemical adhesive of apporved make & brand and laid as per manufacturer's specifications, all complete.	1	Sqm	
44	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 1200x600 mm	1	Sqm	
45	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). with tiles of Size 1200x600 mm	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
46	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 800 x 1600 mm	1	Sqm	
47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). with tiles of Size 800 x 1600mm	1	Sqm	
48	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 800 x 800 mm	1	Sqm	
49	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). with tiles of Size 800 x 800 mm	1	Sqm	
50	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600 x 600 mm	1	Sqm	
51	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). with tiles of Size 600 x 600 mm	1	Sqm	
52	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of NID.	1	Sqmt	
53	Crazy kota stone flooring, including filling the gaps with cement mortar 1:4 (1 cement : 4 coarse sand), with under layer 25 mm thick (average) in cement mortar 1:4 (1 cement : 4 coarse sand), including cement slurry and finishing smooth all complete.	1	Sqmt	
H	<u>FINISHING WORKS</u>			
54	12 mm cement plaster of mix: 1:4 (1 cement: 4 fine sand) up to 6th floor including scaffolding work	1	Sqm	
55	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand) up to 6th floor including scaffolding work	1	Sqm	
56	20 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand) up to 6th floor including scaffolding work	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
57	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:4 (1 cement: 4 coarse sand) up to 6th floor including scaffolding work finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand) .	1	Sqm	
58	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) up to 6th floor including scaffolding work	1	Sqm	
59	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement: 3 fine sand) (At all height): Flush / Ruled/ Struck or weathered pointing up to 6th floor including scaffolding work.	1	Sqm	
60	Washed stone grit plaster on exterior walls of all height above ground level, in two layers, under layer 12mm cement plaster 1:4 (1cement: 4 coarse sand), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand :2 stone chipping 10mm nominal size), in panels with groove all around as per approved pattern as per sitr requirement, including scrubbing and washing the top layer with brushes and water to expose the stone chippings, complete as per specification and direction of NID.	1	Sqm	
I	<u>WATERPROOFING WORKS</u>			
61	Providing & Fixing appropriate Chemical based water-proofing to existng RCC slab, vertical walls, plumbing & draimage lines, holes in civil work, etc. of Roff, Dr.Fixit, Asian Paints or equivalent approved manufacturer, applied as per manufacturere's specifications. The contractor will provide a written comprehensive performance Gurantee of 10 years for the entire water-proofing work. This work will also include providing and applying IPS / PCC as per required slopes, etc. in the floor for fixing of tiles, etc.	1	Sqm	
62	Applying breathable, non-reactive, antifungal, and water repellant chemical as approved by Archaeological Survey of India, of approved brand and manufacture, on the existing exposed brick masonry surface with two or more coats or as per manufacturer specification to give uniform application of chemical on the surface, all complete including all materials & labours involved and scaffolding.	1	Sqm	
63	Waterproofing treatment to toilet sunk slabs including its sides using water proof mortar and covering it with one coat of Dischtament DS of MC Bouchemie or SIKKA or Pidilite or Fosroc make.	1	Sqm	
64	Laying of Light weight cinder concrete in toilet sunk areas in 1:5:10 by using waterproofing compound of Pidilite/Sikka/Fosroc make	1	Sqm	
J	<u>REPAIRS TO BUILDINGS</u>			
65	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish out of Campus : With cement mortar 1:4 (1 cement : 4 fine sand) .	1	Sqm	
66	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish out of campus : Door /Window /Clerestory window Chowkhats.	1	No.	
67	Fixing chowkhat in existing opening in brick / RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	1	No.	
68	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/rubbish to the nearest municipal dumping ground. For door/ window/ clerestory window.	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
K	<u>DEMOLISHING & DISPOSAL WORKS</u>			
69	Demolishing cement concrete manually/ by mechanical means including disposal of material outside of NID Campus : Concrete of any mix i/c design mix concrete.	1	Cum	
70	Demolishing R.C.C. / R.B. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material out of the Campus	1	Cum	
71	Demolishing brick work(In cement mortar) manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material outside NID Campus	1	Cum	
72	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground including all leads & all lifts involved.	1	Cum	
73	Taking out existing CC interlocking paver blocks from footpath/ central verge, including removal of rubbish etc., disposal of unserviceable material to the dumping ground, for which payment shall be made separately and stacking of serviceable material within 50 metre lead as per direction of NID.	1	Sqm	
74	Laying old cement concrete interlocking paver blocks of any design/ shape laid in required line, level, curvature, colour and pattern over and including 50 mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of NID. (Old CC paver blocks shall be supplied by the department free of cost).	1	Sqm	
75	Providing and laying factory made chamfered edge Cement Concrete paver blocks In foot path, park & lawns driveway or light & traffic parking etc. of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of coarse 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, all complete as per manufacturer's specifications & direction of NID: 80mm thick Cement concrete paver block of M-30 grade with approved colour, design & pattern.	1	Sqm	
76	Taking out of existing kerb stones of all types from footpaths / central verge , including removal of mortar etc. disposal of unserviceable material to the dumping ground, for which payment shall be made separately and staking of serviceable material as per direction of NID.	1	metre	
77	Laying at or near ground level old kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of NID. (Length of finished kerb edging shall be measured for payment).	1	metre	
78	Providing and Laying at or near ground level new kerb stones of all types in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement : 3 coarse sand), including making joints with or without grooves (thickness of joints, except at sharp curve, shall not be more than 5 mm), including making drainage opening wherever required etc. complete as per direction of NID. (Length of finished kerb edging shall be measured for payment).	1	metre	
L	<u>PLUMBING ITEMS</u>			
79	Providing and 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 10 mm gap for thermal expansion, (i) Single socketed pipes. Including all required fittings i.e , pipe clips, elbow, tee, coupler etc. 73 (a) : 75 mm diameter	1	rmt	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
80	Providing and 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 10 mm gap for thermal expansion, (i)Single socketed pipes. Including all required fittings i.e , pipe clips, elbow, tee, coupler etc : 110 mm diameter	1	rmt	
81	Providing and 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 10 mm gap for thermal expansion, (i)Single socketed pipes. Including all required fittings i.e , pipe clips, elbow, tee, coupler etc : 150 mm diameter	1	rmt	
82	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	No.	
83	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	1	No.	
84	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm and nearby size with one or two 15 mm C.P. brass pillar taps.	1	No.	
85	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 550x400 mm & nearby size with one or two 15 mm C.P. brass pillar taps.	1	No.	
86	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 450x300 mm or nearby size with one or two 15 mm C.P. brass pillar taps.	1	No.	
87	Providing and fixing under counter wash basin with C.I. brackets, 15 mm C.P. brass Pressmatic pillar tap, 32 mm C.P. brass waste bottle trap of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China under counter Wash basin size 605 x 430 x 200 mm of approved brand and as mentioned in specification of material .	1	No.	
88	Providing and fixing back to wall WC - Disabled friendly, water closet (European type) with seat and lid & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. Disabled Friendly W.C. pan of approved brand and as mentioned in specification of material.	1	No.	
89	Providing and fixing white vitreous china flat back lipped front urinal basin of 385 x 325 x635 mm size respectively with Electric urinal sensor flushing system with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required of approved brand and as mentioned in specification of material.	1	No.	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
90	Providing and fixing Stainless Steel A Isis 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink without drain board 610x510 mm bowl depth 200 mm.	1	No.	
91	Providing and fixing white vitreous china pedestal type (European type/ wash down type) water closet pan.	1	No.	
92	Rate for labour charges for fixing of White vitreous china pedestal type (European type/ wash down type) water closet pan.	1	No.	
93	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by NID.	1	No.	
94	Providing and fixing P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete. 81(a) 10 litre capacity - White	1	No.	
95	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan.	1	No.	
96	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of NID.	1	No.	
97	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. : Semi rigid pipe : 32 mm dia	1	No.	
98	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. : Semi rigid pipe 40 mm dia	1	No.	
99	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. : Flexible pipe 32 mm dia	1	No.	
100	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 40 mm dia	1	No.	
101	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. Waste coupling 30/40 mm	1	No.	
102	Providing and fixing PTMT Bottle Trap for Wash basin and sink. 13.1 : Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	1	No.	
103	Bottle trap 38 mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 263 gms	1	No.	
104	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	1	No.	
105	Providing and fixing white vitreous china battery based infrared sensor operated urinal of approx. size 610 x 390 x 370 mm having pre & post flushing with water (250 ml & 500 ml consumption), having water inlet from back side, including fixing to wall with suitable brackets all as per manufacturers specification and direction of NID.	1	No.	
106	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of NID. : Internal work - Exposed on wall - 15 mm nominal outer dia. Pipes.	1	metre	
107	Same as above for 20 mm nominal outer dia. Pipes.	1	metre	
108	Same as above for 25 mm nominal outer dia. Pipes.	1	metre	
109	Same as above for 32 mm nominal outer dia. Pipes.	1	metre	
110	Same as above for 40 mm nominal outer dia. Pipes.	1	metre	
111	Same as above for 50 mm nominal outer dia. Pipes.	1	metre	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
112	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of NID. :Concealed work, including cutting chases and making good the walls etc. for 15 mm nominal outer dia .Pipes.	1	metre	
113	Same as above for 20 mm nominal outer dia .Pipes.	1	metre	
114	Same as above for 25 mm nominal outer dia .Pipes.	1	metre	
115	Same as above for 32 mm nominal outer dia .Pipes.	1	metre	
116	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of NID : External work : 15 mm nominal outer dia. Pipes.	1	metre	
117	Same as above for 20 mm nominal outer dia. Pipes.	1	metre	
118	Same as above for 25 mm nominal outer dia. Pipes.	1	metre	
119	Same as above for 32 mm nominal outer dia. Pipes.	1	metre	
120	Same as above for 40mm nominal outer dia.pipes.	1	metre	
121	Same as above for 50mm nominal outer dia.pipes	1	metre	
122	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	1	No.	
123	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	1	No.	
124	Providing and fixing uplasticised PVC connection pipe with brass unions : 30 cm length : 15 mm nominal bore	1	No.	
125	Providing and fixing uplasticised PVC connection pipe with brass unions : 30 cm length : 20 mm nominal bore	1	No.	
126	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length : 15 mm nominal bore	1	No.	
127	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length : 20 mm nominal bore	1	No.	
128	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	1	No	
129	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 150 mm diameter	1	No.	
130	Constructing masonry Chamber 30x30x50 cm inside, in brick work in cement mortar 1:4 (1 cement :4 coarse sand) for stop cock, with C. I. surface box 100x100 x75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement :2 coarse sand : 4 graded stone aggregate 20 mm nominal size), i/c necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand:10 graded stone aggregate 40mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12mm thick finished with a floating coat of neat cement complete as per standard design : : With common burnt clay F.P.S.(non modular) bricks	1	No.	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
131	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1cement :2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks	1	No.	
132	Constructing masonry Chamber 60x45x50 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for water meter complete with C.I. double flap surface box 400x200x200 mm (inside) with locking arrangement and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand:10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design : With common burnt clay F.P.S.(non modular) bricks	1	No.	
133	Providing and fixing brass bib cock of approved quality : 15 mm nominal bore	1	No.	
134	Providing and fixing brass bib cock of approved quality : 20 mm nominal bore	1	No.	
135	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. : 15 mm nominal bore.	1	No.	
136	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. : 15 mm nominal bore	1	No.	
137	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931. 15 mm nominal bore.	1	No.	
138	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore	1	No.	
139	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology. 15 mm nominal bore.	1	No.	
140	Providing and fixing back to wall WC - Disabled friendly, water closet (European type) with seat and lid & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required. Disabled Friendly W.C. pan of approved brand and as mentioned in specification of material.	1	No.	
141	Providing and fixing white vitreous china flat back lipped front urinal basin of 385 x 325 x635 mm size respectively with Electric urinal sensor flushing system with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required of approved brand and as mentioned in specification of material.	1	No.	
142	Providing and fixing Metropole flush valve of approved brand and as mentioned in specification of material.	1	No.	
143	Providing and fixing UPVC Foam Core SN-8 Grade Drainage lines of Astral, Supreme or equivalent apporved make of 100mm diamater, including all necessary accesoories, laid as per manufacturer's specifications, al complete.	1	metre	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
144	Providing and fixing UPVC Foam Core SN-8 Grade Drainage lines of Astral, Supreme or equivalent approved make of 75mm diameter, including all necessary accessories, laid as per manufacturer's specifications, all complete.	1	metre	
145	Providing and fixing CP angle stop cock 15 mm nominal bore, weighing not less than 85 gms	1	No.	
146	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : a. Kitchen sink with drain board, 510x1040 mm bowl depth 250 mm, i/c CP brass long neck bib cock, stop cock etc of approved brand, all complete.	1	No.	
147	Providing and fixing of EWC support of approved brand and as mentioned in material specification.	1	No.	
148	Providing and fixing of Grab bar of approved brand and as mentioned in material specification.	1	No.	
149	Providing and fixing of Swing grab bar of 32mm dia., Horizontally & Vertically movable, of approved brand and as mentioned in material specification.	1	No.	
150	Providing and fixing of U Shapped grab bar – Set of 2 pieces. of 32mm dia. of approved brand and as mentioned in material specification.	1	No.	
151	Providing and fixing of L Shapped grab bar of 32mm dia. of approved brand and as mentioned in material specification.	1	No.	
152	Providing and fixing of Straight Grab bar of 600mm length – 32mm dia. of approved brand and as mentioned in material specification.	1	No.	
M	<u>Aluminium works</u>			
153	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of NID up to 6th floor. (Glazing, paneling and dash fasteners to be paid for separately) : (a) For fixed portion : (i) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1	Kg	
154	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of NID up to 6th floor (Glazing, paneling and dash fasteners to be paid for separately) : (a) For fixed portion (ii) Powder coated aluminium (minimum thickness of powder coating 50 micron)	1	Kg	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
155	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of NID up to 6th floor. (Glazing, paneling and dash fasteners to be paid for separately) : (b) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). (i) Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	1	Kg	
156	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of NID up to 6th floor. (Glazing, paneling and dash fasteners to be paid for separately) : (b) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). (ii) Powder coated aluminium (minimum thickness of powder coating 50 micron)	1	Kg	
157	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of NID. (Cost of aluminium snap beading shall be paid in basic item): (a) With clear glass panes of 4.0 mm thickness	1	Sqm	
158	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of NID. (Cost of aluminium snap beading shall be paid in basic item): (b) With clear glass panes of 5 mm thickness	1	Sqm	
159	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of NID. (Cost of aluminium snap beading shall be paid in basic item): (c) With clear glass panes of 8 mm thickness	1	Sqm	
160	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of NID. (Cost of aluminium snap beading shall be paid in basic item): (d) With clear glass panes of 12mm thickness	1	Sqm	
161	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors ,embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of NID. (a) With stainless steel cover plate minimum 1.25 mm thickness.	1	No.	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
162	Providing and fixing double glazed hermetically sealed glazing in aluminium windows, ventilators and partition etc. with 6 mm thick clear glass both side, having 12 mm air gap, including providing EPDM gasket, perforated aluminium spacers, desiccants, sealant (Both primary and secondary sealant) etc. as per specifications, drawings and direction of NID complete.	1	Sqm	
163	Providing and fixing 100mm brass locks (best make of approved quality) for aluminium doors including necessary cutting and making good etc. complete.	1	No.	
164	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. (a) Anodized (AC 15) aluminium	1	No.	
165	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete. (b) Powder coated minimum thickness 50 micron aluminium.	1	No.	
166	Providing and fixing aluminium round shape handle of outer dia 100mm with SS screws etc. complete as per direction of NID (b) Powder coated minimum thickness 50 micron aluminium	1	No.	
167	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick /Stone /wood /Ceramic/Gypsum work by providing weather /structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of NID complete complying to ASTM C920, DIN 18540-F & ISO 11600. (a) Upto 5mm depth	1	Rmt	
168	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick /Stone /wood /Ceramic/Gypsum work by providing weather /structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete complying to ASTM C920, DIN 18540-F & ISO 11600. (b) Upto 10 mm depth and 10 mm width	1	m	
169	Filling the gap in between aluminium/ stone/ wood frame and adjacent RCC/Brick /Stone /wood /Ceramic/Gypsum work by providing weather /structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete complying to ASTM C920, DIN 18540-F & ISO 11600. (c) Upto 20 mm depth and 20 mm width	1	m	
170	Removing, refixing and alteration of existing aluminum fixed glass partition, sliding window type partition including all fixtures and accessories. doors etc. (Labor charges)	1	Sqm	
171	Supply and Installation of 5 mm thick compact sheet / Bakelite sheet	1	Sqm	
172	Supply and Installation of 3mm thick compact sheet / Bakelite sheet	1	Sqm	
N	<u>Painting works</u>			
173	White washing with lime to give an even shade: New work (three or more coats)	1	Sqm	
174	Distempering with 1st quality acrylic distemper (ready mixed) of approved manufacturer, of required shade and colour complete, as per manufacturer's specification. Two or more coats on new work.	1	Sqm	
175	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer.	1	Sqm	
176	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. (a) On steel work	1	Sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
177	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. (b) On concrete work	1	Sqm	
178	Painting on G.S. sheet with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : (a) New work (two or more coats) including a coat of approved steel primer but excluding a coat of mordant solution.	1	Sqm	
179	Polishig on wooden work, wooden glass partitions (old work)	1	Sqm	
180	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1	Sqm	
181	Painting with medium quality Asian/Nerolac/Burger plastic paint of required colour and shade: New work (two or more coats) including one coat of putty after removal of old paint and applying priming coat etc all complete.	1	Sqm	
182	Applying primer with ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works/wood work.	1	Sqm	
183	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new/old work over an under coat of suitable shade with ordinary paint/primer of approved brand & manufacture	1	Sqm	
O	<u>Steel work</u>			
184	Structural steel work in single section fixed with or without connecting plate including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1	Kg	
185	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	1	Kg	
186	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes.	1	Kg	
187	Supply and Fixing carbon steel galvanised dash fastners (Mechanical Type) : 10mm x 80mm	1	Nos.	
188	Supply and Fixing carbon steel galvanised dash fastners (Mechanical Type) : : 10mm x 60mm	1	Nos.	
189	Supply and Fixing carbon steel galvanised dash fastners (Mechanical Type) : : 12mm x 80mm	1	Nos.	
190	Supply and Fixing carbon steel galvanised dash fastners (Mechanical Type) : : 12mm x 100mm	1	Nos.	
191	Supply and Fixing G.I. chain link fencing with 50 x 50mm opening of 3mm dia GI wire. With requierd nut, bolt, waasher, pins etc.	1	Sqm	
192	Supply and Fixing GI barbed wire 12x14g with all required nut, bolt, washers, pins or binding wire etc. complete	1	Rmt	
193	Supply and fixing concertina blade wire fencing of 600mm dia	1	Rmt	
194	Core Cutting in RCC/Brick work upto thickness of 2" to 5" (inch)	1	No.	
195	Core Cutting in RCC/Brick work upto thickness of 6" to 9" (inch)	1	No.	
196	Core Cutting in RCC/Brick work upto thickness of 9" to 18" (inch)	1	No.	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
197	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by NID, 0.62 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by NID. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. TATA Bluescope make Durashine Sheet, 0.62 mm thick, 1072mm width	1	sqm	
198	Providing and fixing precoated galvanised steel sheet roofing accessories 0.62 mm (+0.05 %) total coated thickness, Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Ridges plain (500 - 600mm)	1	Rmt	
199	Erection of Metallic pole (40mm to 100mm) of following length in cement concrete 1:3:6 (1 Cement :3 Coarse Sand : 6 graded Stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required. Above 4.5 meter and upto 6.5 meter.	1	Each	
200	Erection of Metallic pole (40mm to 100mm) of following length in cement concrete 1:3:6 (1 Cement :3 Coarse Sand : 6 graded Stone aggregate 40mm nominal size) foundation including excavation and refilling etc. as required. Above 6.5 meter and upto 8.0 meter	1	Each	
201	Erection of Steel tubular or rail pole strut (40mm to 100mm) in cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling and secured with hold clamps, bolts, nuts etc as required	1	Each	
202	Providing and fixihanger fixed with intermediate G.I. channels 45x15x0.9 mm runningng false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of NID but excluding the cost of painting with : (i) 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks)	1	sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
203	Same as above (ii) 12.5 mm thick tapered edge Glass Reinforced Gypsum (GRG) board conforming to IS: 2095- (Part 3):1996 (Boards with BIS certification marks)	1	sqm	
204	Same as above (iii) 12.5 mm thick tapered edge gypsum moisture resistant board	1	sqm	
205	Same as above (iv) Fully Perforated Gypsum Plaster Board of size 1200 x 2400x12.5 mm having approx. 15 % perforated area with perforation size and pattern as approved by NID and as per manufacturer's specification, with all 4 side tapered and backed by acoustical tissue with NRC value not less than 0.60	1	sqm	
206	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main T at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main T runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by NID. (i) GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	1	sqm	
207	Same as above ... (ii) GI Metal Ceiling Lay in perforated Tegular edge global white color tiles of size 595x595 mm and 0.5 mm thick with 8 mm drop; made of GI sheet having galvanizing of 100 gms/sqm (both sides inclusive) and 20% perforation area with 1.8 mm dia holes and having NRC (Noise Reduction Coefficient) of 0.5, electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending and perforation, and backed with a black Glass fiber acoustical fleece.	1	sqm	
208	Same as above ... (iii) 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	1	sqm	
209	Same as above ... (iv) 12.5 mm thick fully Perforated Gypsum Board tile made from plasterboard having glass fibre conforming to IS: 2095 part I, of size 595x595 mm, having perforation of 9.7x9.7 mm at 19.4 mm c/c with center borders of 48 mm and the side borders of 30 mm, backed with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.79, with 50 mm resin bonded glass wool backing.	1	sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
210	<p>Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main „T“ runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross “T” of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main“T” at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross „T” of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main „T” runners to be suspended from ceiling using G.I.slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main „T”, bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by NID.</p> <p>Note :-Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK.</p>	1	sqm	
211	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by NID. (i) with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.</p>	1	sqm	

Item No.	Description of Item	Quantity	Unit	Rate (Rs.)
212	<p>Providing & fixing false ceiling at all height including providing & fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25mm wide x 1.6mm thick with flanges of 27mm and 37mm, at 1200mm c/c, one flange fixed to the ceiling with dash fastener 12.5mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25 x10 x0.50mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5mm thick bottom wedge of 80mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64mm dia x 230mm long G.I wire at every junction, including fixing perimeter channels 0.50mm thick 27mm high having flanges of 0mm and 30mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450mm centre, with 25mm long dry wall screws @ 230mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25mm at 230mm c/c, including jointing & finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification and also including the cost of making opening for light fittings, grills, diffusers, cut outs made with frame of perimeter channels suitably fixed, all complete as per drawings, specificaton and direction of the NID but excluding the cost of painting with: (i) 8 mm thick Calcium Silicate Board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process.</p>	1	sqm	