

म०न० - 798, सेक्टर - 7 (जैन मंदिर के पास) आवास विकास कालोनी, सिकन्दरा, आगरा-282007

पत्रांक 551 / ई-टेंडर / 58 दिनांक 16/05/2026


### शुद्धि पत्र

इस कार्यालय के पत्र संख्या- 399/ई-टेंडर/32 दिनांक 22.04.2026 के द्वारा जनपद आगरा में बटेश्वर में स्व0 श्री अटल बिहारी बाजपेयी मेमोरियल के निर्माण कार्य (निविदा आई0डी0- 2026\_UPCDS\_1141205\_1) हेतु अनुमानित लागत रु0 1731.47 लाख की ई-निविदा दिनांक 24/04/2026 से दिनांक 25/05/2026 की अपरान्ह 17:00 बजे तक आमंत्रित की गयी है।

उक्त कार्य हेतु आमंत्रित ई-निविदा में बिड डाक्यूमेन्ट्स के अन्तर्गत अपरिहार्य कारणवश संशोधित SCHEDULE- G (B.O.Q.) अपलोड किया जा रहा है, जिसकी कुल लागत रु0 1731.47 लाख है।

उक्त के अतिरिक्त शेष नियम व शर्तें यथावत रहेंगी।


संलग्न: SCHEDULE- G (B.O.Q.)

  
(अखिलेश बाबू)  
परियोजना प्रबन्धक

पू०सं० एवं दिनांक उपरोक्तानुसार।

प्रतिलिपि:-

1. निदेशक, सी0 एण्ड डी0एस0, उ०प्र० जल निगम (नगरीय), लखनऊ।
2. जिलाधिकारी, आगरा।
3. क्षेत्रीय पर्यटन अधिकारी, आगरा क्षेत्र, आगरा।
4. मुख्य महाप्रबन्धक (चतुर्थ), सी0 एण्ड डी0एस0, उ०प्र० जल निगम (नगरीय), लखनऊ।
5. महाप्रबन्धक (नि०-05/नोडल), सी0 एण्ड डी0एस0, उ०प्र० जल निगम (नगरीय), लखनऊ।
6. महाप्रबन्धक (नि०-11), सी0 एण्ड डी0एस0, उ०प्र० जल निगम (नगरीय), लखनऊ।
7. वित्त अधिकारी, सी0 एण्ड डी0एस0, उ०प्र० जल निगम (नगरीय), लखनऊ।
8. श्री कपिल कुमार, स्थानिक अभियन्ता को इस आशय से प्रेषित कि उक्त शुद्धि पत्र को ई-टेंडर पोर्टल अपलोड कराना सुनिश्चित करें।
9. ई-टेंडर पोर्टल <https://etender.up.nic.in> पर अपलोड करने हेतु।

  
परियोजना प्रबन्धक

**CONSTRUCTION OF LT. SHRI ATAL BIHARI VAJPAYEE MEMORIAL AT BATESHWAR IN DISTT.  
AGRA (U.P.)**

**TENDER BOQ**

S.N.	DESCRIPTION OF ITEM OF WORK	QTY	UNIT	RATE	AMOUNT Rs
	<b>EXHIBITION CORRIDOR</b>				
<b>1</b>	<b>CIVIL WORK UPTO PLINTH</b>				
	<b>EARTH WORK</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
	All kinds of soil	4704.00	CUM	129.86	610861.44
2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a)	All kinds of soil (From 1.5 to 3 m depth)	2262.00	CUM	92.77	209845.74
b)	All kinds of soil (From 3.00 to 3.50 m depth)	181.00	CUM	185.53	33580.93
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 upto 1.5 m.	4704.00	CUM	143.39	674506.56
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	179.34	CUM	1553.73	278644.38
5	Supplying chemical emulsion in sealed containers including delivery as specified.				
a)	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	42.00	LITRE	171.74	7213.08
6	Diluting and injecting chemical emulsion for pre-constructural anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
a)	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	1195.59	SQM	226.83	271195.68
	<b>CONCRETE WORKS</b>				
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
a)	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	89.67	CUM	5763.88	516841.36

b)	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	100.02	CUM	4983.63	498482.61
	REINFORCED CEMENT CONCRETE WORK				
	FORM WORK				
8	Centring and shuttering including strutting,propping etc. and removal of form for				
a)	Foundations, footings, bases of columns etc. for mass concrete.	649.96	SQM	286.90	186472.38
b)	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	501.86	SQM	616.37	309333.91
c)	Lintels, beams, plinth bams, griders, bressumers and cantilevers.	728.10	SQM	538.75	392265.49
d)	Columns,Pillars, Piers, Abutments, Posts and Struts	211.32	SQM	703.28	148617.13
	STEEL REINFORCEMENT				
9	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth & above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	2609.01	QTL	7890.27	20585761.77
10	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
a)	All works upto plinth level				
	Concrete of M30 grade with minimum cement content of 350 kg /cum	1279.81	cum	7064.07	9040681.55
11	Add for using extra cement in the items of design mix over and above the specified cement content therein.	412.05	QTL	536.63	221115.71

12	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
a )	550 mm dia piles	8676.00	METRE	3453.98	29966730.48
13	Extra over single under ream for providing additional bulbs in under reamed piles, under specified diameter(only the nos. of extra bulbs are to be paid)				
	550 mm dia piles	964.00	EACH	2458.27	2369772.28
14	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.				
	Single pile upto 50 tonne Safe capacity				
a )	Initial test (Test Load 2.5 times the Safe capacity)	5.00	PER TEST	40070.63	200353.15
b )	Routine test (Test Load 1.5 times the Safe capacity)	5.00	PER TEST	14362.99	71814.95
	<b>MASONRY WORK</b>				
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a )	Cement mortar 1:6 (1 cement : 6 coarse sand)	36.17	CUM	5217.93	188748.18
	<b>WATER PROOFING</b>				
16	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The pro, shuttering all complete. (Excavation, foot rests and 12 mm thick cemen				
a )	For vertical surface two coats @ 0.70 kg per sqm per coat	250.93	sqm	345.97	86814.94

b )	For horizontal surface one coat @1.10 kg per sqm.	125.47	sqm	265.42	33301.19
	<b>ABOVE PLINTH LVL.</b>				
	<b>REINFORCED CEMENT CONCRETE WORK</b>				
	<b>FORM WORK</b>				
<b>1</b>	Centring and shuttering including strutting,propping etc. and removal of form for				
a )	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	1797.720	SQM	616.37	1108060.68
b )	Suspended floors, roots, landings, balconies and access platform.	1127.000	SQM	678.37	764522.99
c )	Lintels, beams, plinth bams, griders, bressumers and cantilevers.	440.970	SQM	538.75	237572.59
d )	Columns,Pillars, Piers, Abutments, Posts and Struts	469.800	SQM	703.28	330400.94
e )	Edges of slabs and breaks in floors and walls Under 20 cm wide	384.920	METRE	152.57	58727.24
f )	Weather shade, Chajjas, corbels etc., including edges	100.000	SQM	695.82	69582.00
	<b>STEEL REINFORCEMENT</b>				
<b>2</b>	Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1244.070	QTL	7890.27	9816048.20
<b>3</b>	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
a )	All works above plinth level upto floor V level				
	Concrete of M30 grade with minimum cement content of 350 kg /cum	812.453	CUM	7324.27	5950625.13
	<b>MASONRY WORK</b>				
<b>4</b>	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for seperately).	91.780	cum	6096.87	559570.73

	<b>WOOD WORK</b>				
<b>5</b>	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
<b>a )</b>	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	6.300	sqm	1230.55	7752.47
<b>6</b>	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	6.300	sqm	237.77	1497.95
<b>7</b>	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
<b>a )</b>	1.0 mm thick	12.600	sqm	461.64	5816.66
	<b>HARDWARES FITTINGS FOR DOOR</b>				
	Providing and fixing approved brand and manufacturer SS 304 grade hardware's for Doors etc.				
	For wooden doors				
<b>8</b>	Providing and fixing approved brand and manufacture SS 304 Lever Handle D-type, 22mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	4.000	per pair	1917.08	7668.32
<b>9</b>	Providing and fixing approved brand and manufacture SS 304 grade SS 304 grade Mortise Dead Lock with 60mm Backset fixed fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	2.000	each	1353.85	2707.70
<b>10</b>	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 250mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	4.000	each	440.41	1761.64
<b>11</b>	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 150mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.		each	306.08	
<b>12</b>	Providing and fixing approved brand and manufacture SS 304 grade wall mounted door buffer fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	4.000	each	373.25	1493.00
<b>13</b>	Providing and fixing approved brand and manufacture SS 304 grade Door Stopper - door mounted hanging type fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	4.000	each	434.65	1738.60

14	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	4.000	each	719.27	2877.08
	STEEL WORK				
15	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.				
a )	Hot finished welded type tubes	2130.506	kg	142.22	303000.56
16	Providing and fixing stainless steel (Grade 316) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	505.800	kg	565.09	285822.52
17	Providing and Fixing of Multi cell/tight cell Polycarbonate Panels 16 mm thick with 5 cells-6 walls structure over MS Supporting structures. Panel Width shall be 1040 mm to ensure best performance for wind uplift. Panels having Vertical Standing Seam 15mm at both sides; snap-on connector to interlock the panels shall have a grip-lock 2 tooth locking mechanism to ensure maximum uplift capability. Panels shall be fixed on Purlins with special Expansion fastener, polycarbonate U connectors. Panels shall be manufactured with approved quality assurance as per ISO 9001 & ISO 14001. Translucent polycarbonate system Materials and Products shall be manufactured by a company continuously and regularly employed in the manufacture of translucent systems using polycarbonate panel systems. The rate includes cost of all the operations,labour materials and tests (as applicable) for proper completion of the work except the M.S tubular framework which shall be measured and paid separately (For payment purpose the area of finished polycarbonate sheet fixed in position shall only be measured).	78.718	sqm	5139.08	404538.10
	FLOORING				
18	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) :				
a )	25 mm thick	64.820	sqm	1425.33	92389.89

19	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.	6.482	sqm	1722.69	11166.48
20	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.				
a )	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	424.043	sqm	3278.50	1390224.98
21	Providing and laying flamed finish Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge :				

a )	Flamed finish granite stone slab Jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent.	424.043	sqm	2331.38	988605.37
	PAINTING AND FINISHING WORK				
22	12mm cement plaster of mix :				
a )	1:6 (1 cement: 6 coarse sand)	440.970	sqm	251.41	110864.27
23	15 mm cement plaster on the rough side of single or half brick wall of mix :				
a )	1:6 (1 cement: 6 coarse sand)	450.497	sqm	289.24	130301.75
24	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	100.000	sqm	379.37	37937.00
25	6 mm cement plaster of mix :				
a )	1:3 (1 cement : 3 fine sand)	2125.860	sqm	219.81	467285.29
26	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.	3017.326	sqm	114.17	344488.11
27	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
a )	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	3017.326	sqm	135.82	409813.22
28	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an shade.				
a )	Two or more coats on new work including priming coat of ordinary paint approved brand.	319.576	sqm	165.52	52896.22
29	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	100.000	sqm	163.58	16358.00
30	Providing & fixing galvanized low carbon wire, annealed wire Chicken mesh formed by twisting two adjacent wires at least four times, forming a hexagonal shaped strong honeycomb mesh structure on joints of RCC & Brick work before plastering, of required gauge (not less than 21 gauge)and size with nails etc. complete as specified in drawing and as per the Direction of Engineer-in-charge.	99.147	sqm	139.13	13794.32
	CLADDING WORK				
31	DRY CLADDING Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with machine cut edges of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).				
	Red sand stone - 30mm thick gang saw cut stone	807.860	sqm	2123.57	1715547.26

32	<p>Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-incharge for approval before execution). The frame work shall be fixed in true horizontal &amp; vertical lines/planes. (Only structural steel frame work shall be</p>	14541.000	kg	197.49	2871702.09
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33	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-in-charge.	4039.000	each	319.71	1291308.69
34	Applying breathable, non-reactive, antifungal, and water repellent Silane/Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding).	1615.721	sqm	80.40	129903.97
	FOR MURAL STONE				
35	Stone work for cladding, carving, moulding, cornices, string, courses etc.(by using 6 axis CNC machine), ornamental work, traditional work, figure work (below under mentioned type, thickness, any size) in Sandstone, etc. for below mentioned items : Providing and fixing White sand stone work in capitol/copings, cornices, string courses and plinth courses, upto required thickness in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade, Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical etc including rubbing, curing and polishing etc including transportation, loading, unloading using mechanical equipments/machine , stacking, scaffolding ( For all heights), cleaning , fixing, joint filling, polishing, grinding, necessary lifting machinery, placing,etc. complete. (prior mediatory aproval of sample/ brand before use ) complete in all aspects as per Architect specifications/ drawing and as directed by Engineer in charge.	103.950	sqm	206175.44	21431936.99
	ROOFING & FALSE CEILING WORK				

36	<p>Providing and fixing 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 &amp; bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running 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</p>				
a )	12.5 mm thick tapered edge gypsum moisture resistant board	48.750	sqm	991.90	48355.13
37	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, wherever, 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 x 1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised</p>				
	<p>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.</p>	165.750	sqm	1513.49	250860.97
	WATER PROOFING				
38	<p>Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:</p>				

	(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 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 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 1:5 (1 cement :5 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.				
	(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 Engineering-charge.				
	(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineering-charge including laying glass fibre cloth 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.				
	(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	With average thickness of 120 mm and minimum thickness at khurra as 65mm.	1127.140	sqm	1232.45	1389143.69
<b>39</b>	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
<b>a )</b>	In 75x75 mm deep chase	309.020	metre	223.25	68988.72

40	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage.				
a )	For vertical surface two coats @ 0.70 kg per sqm per coat	898.860	sqm	345.97	310978.59
b )	For horizontal surface one coat @1.10 kg per sqm.	449.430	sqm	265.42	119287.71
	ALUMINIUM WORK				
41	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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt 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 Engineer-in-charge. (Glazing and paneling to be paid for separately) :				
a )	For fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	28.500	kg	388.40	11069.40
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 PVC / neoprene gasket required (Fittings shall be paid for separately).				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	20.000	kg	464.16	9283.20
	<b>PUBLIC AMENITY..</b>				
	<b>EARTH WORK</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
	All kinds of soil	25.000	cum	129.86	3246.50

2	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 upto 1.5 m.	25.000	cum	143.39	3584.75
3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	2.500	cum	1553.73	3884.33
4	Supplying chemical emulsion in sealed containers including delivery as specified.				
	Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	1.000	Litre	171.74	171.74
5	Diluting and injecting chemical emulsion for pre-constructional anti-termite treatment (excluding the cost of chemical emulsion) :				
	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor :				
	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	31.500	sqm	226.83	7145.15
<b>CONCRETE WORKS</b>					
6	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1.875	cum	5763.88	10807.28
7	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	1.156	cum	4983.63	5761.08
<b>REINFORCED CEMENT CONCRETE FORM WORK</b>					
8	Centring and shuttering including strutting,propping etc. and removal of form for				
a )	Foundations, footings, bases of columns etc. for mass concrete.	7.200	sqm	286.90	2065.68
b )	Lintels, beams, plinth bams, griders, bressumers and cantilevers.	32.890	sqm	538.75	17719.49
c )	Columns,Pillars, Piers, Abutments, Posts and Struts	2.400	sqm	703.28	1687.87
<b>STEEL REINFORCEMENT</b>					

9	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth & above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1922.000	kilogram	78.90	151645.80
10	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
<b>a )</b>	All works upto plinth level				
	Concrete of M30 grade with minimum cement content of 350 kg /cum	7.020	cum	7064.07	49589.77
11	Add for using extra cement in the items of design mix over and above the specified cement content therein.	3.419	quintal	536.63	1834.74
12	Boring with hydraulic piling rigs with power units, providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) :				
<b>a )</b>	550 mm dia piles	72.000	metre	3453.98	248686.56
13	Extra over single under ream for providing additional bulbs in under reamed piles, under specified diameter(only the nos. of extra bulbs are to be paid)				
	550 mm dia piles	8.000	each	2458.27	19666.16

14	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform by Kentledge/Anchor piles method and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.				
	Single pile upto 50 tonne Safe capacity				
	Initial test (Test Load 2.5 times the Safe capacity)	1.000	per test	40070.63	40070.63
	Routine test (Test Load 1.5 times the Safe capacity)	1.000	per test	14362.99	14362.99
	<b>MASONRY WORK</b>				
15	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	3.174	cum	5217.93	16561.71
	<b>ABOVE PLINTH LVL.</b>				
	<b>REINFORCED CEMENT CONCRETE</b>				
	<b>FORM WORK</b>				
1	Centring and shuttering including strutting,propping etc. and removal of form for				
a )	Suspended floors, roots, landings, balconies and access platform.	26.000	sqm	678.37	17637.62
b )	Lintels, beams, plinth bams, griders, bressumers and cantilevers.	20.700	sqm	538.75	11152.13
c )	Columns,Pillars, Piers, Abutments, Posts and Struts	11.520	sqm	703.28	8101.79
d )	Edges of slabs and breaks in floors and walls				
	Under 20 cm wide	21.000	metre	152.57	3203.97
e )	Weather shade, Chajjas, corbels etc., including edges	12.600	sqm	695.82	8767.33
	<b>STEEL REINFORCEMENT</b>				
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500	1172.633	kilogram	78.90	92520.74

3	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
<b>a )</b>	All works above plinth level upto floor V level				
	Concrete of M30 grade with minimum cement content of 350 kg /cum	10.969	cum	7324.27	80339.92
4	Add for using extra cement in the items of design mix over and above the specified cement content therein.		quintal	536.63	
	<b>MASONRY WORK</b>				
5	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately)	11.983	cum	6096.87	73058.79
	<b>WOOD WORK</b>				
6	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.520	sqm	1230.55	3100.99
7	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	2.520	sqm	237.77	599.18

8	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
	1.0 mm thick	5.040	sqm	461.64	2326.67
	<b>HARDWARES FITTINGS FOR DOOR</b>				
	Providing and fixing approved brand and manufacturer SS 304 grade hardware's for Doors etc.				
	<b>WOODEN</b>				
9	Providing and fixing approved brand and manufacture SS 304 Lever Handle D-type, 22mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	per pair	1917.08	1917.08
10	Providing and fixing approved brand and manufacture SS 304 grade SS 304 grade Mortise Dead Lock with 60mm Backset fixed fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	1353.85	1353.85
11	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 250mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	440.41	440.41
12	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 150mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.		each	306.08	
13	Providing and fixing approved brand and manufacture SS 304 grade wall mounted door buffer fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	373.25	373.25
14	Providing and fixing approved brand and manufacture SS 304 grade Door Stopper - door mounted hanging type fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	434.65	434.65
15	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISi, IS : 3564, embossed on the body, door weight upto 36kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	1.000	each	719.27	719.27

	<b>STEEL WORK</b>				
16	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	50.000	kg	126.27	6313.50
17	Providing and fixing stainless steel (Grade 316) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	32.400	kg	565.09	18308.92
	<b>FLOORING</b>				
18	Providing and laying <b>vitriified floor tiles</b> 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.				
	<b>Glazed Vitriified tiles Matt/Antiskid finish of size</b>				
	Size of Tile 600 x 600 mm	26.000	sqm	1071.68	27863.68
19	Providing and laying <b>Vitriified tiles</b> in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in <b>skirting</b> , riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.				
	Size of Tile 600 x 600 mm	2.180	sqm	1187.42	2588.58
	<b>GRANITE WORK FOR COUNTER</b>				

20	Providing and fixing 18 mm 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 20 mm 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. complete at all levels.				
	Granite of any colour and shade				
a)	Area of slab upto 0.50 sqm		sqm	3960.50	
b)	Area of Slab over 0.50sqm	15.504	sqm	3757.70	58259.38
21	Extra for providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	Granite work.	26.180	metre	373.81	9786.35
22	Extra for fixing marble /granite stone over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive including cleaning etc. complete.	26.180	metre	415.95	10889.57
	<b>PAINTING AND FINISHING WORK</b>				
23	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	1:6 (1 cement: 6 coarse sand)	57.630	sqm	289.24	16668.90
24	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	10.000	sqm	379.37	3793.70
25	6 mm cement plaster of mix :				
	1:3 (1 cement : 3 fine sand)	26.000	sqm	219.81	5715.06
26	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.	83.630	sqm	114.17	9548.04
27	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	83.630	sqm	135.82	11358.63
28	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an shade.				

	Two or more coats on new work including priming coat of ordinary paint approved brand.	7.500	sqm	165.52	1241.40
29	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	10.000	sqm	163.58	1635.80
30	Providing & fixing galvanized low carbon wire, annealed wire Chicken mesh formed by twisting two adjacent wires at least four times, forming a hexagonal shaped strong honeycomb mesh structure on joints of RCC & Brick work before plastering, of required gauge (not less than 21 gauge)and size with nails etc. complete as specified in drawing and as per the Direction of Engineer-in-charge	6.763	sqm	139.13	940.94
	<b>CLADDING WORK</b>				
31	<b>DRY CLADDING</b> Providing and fixing dry cladding upto 10 metre heights with 30mm thick gang saw cut stone with machine cut edges of uniform colour and size upto 1mx1m, fixed to structural steel frame work and/ or with the help of cramps, pins etc. and sealing the joints with approved weather sealant as per Architectural drawing and direction of Engineer-in-charge. (The steel frame work, stainless steel cramps and pins etc. shall be paid for separately).				
	Red sand stone - 30mm thick gang saw cut stone	71.430	sqm	2123.57	151686.61
32	Providing and fixing structural steel frame (for dry cladding with 30 mm thick gang saw cut with machine cut edges sand stone) on walls at all heights using M.S. square/ rectangular tube in the required pattern as per architectural drawing, including cost of cutting, bending, welding etc. The frame work shall be fixed to the wall with the help of M.S. brackets/ lugs of angle iron/ flats etc. which shall be welded to the frame and embedded in brick wall with cement concrete block 1:2:4 (1 cement :2 coarse sand :4 graded stone aggregate 20 mm nominal size) of size 300x230x300mm, including cost of necessary centring and shuttering and with approved expansion hold fasteners on CC/RCC surface, including drilling necessary holes. Approved cramps/ pins etc. shall be welded to the frame work to support stone cladding, the steel work will be given a priming coat of Zinc primer as approved by Engineer-in-charge and painted with two or more coats of epoxy paint (Shop drawings shall be submitted by the contractor to the Engineer-incharge for approval before execution). The frame work shall be fixed in true horizontal & vertical lines/planes.	857.000	kg	197.49	169248.93

33	Providing and fixing adjustable stainless steel cramps of approved quality, required shape and size, adjustable with stainless steel nuts, bolts and washer (total weight not less than 260 gms), for dry stone cladding fixed on frame work at suitable location, including making necessary recesses in stone slab, drilling required holes etc complete as per direction of the Engineer-incharge.	214.000	each	319.71	68417.94
34	Applying breathable, non-reactive, antifungal, and water repellent Silane/Siloxane chemical as approved by Archaeological Survey of India/ Engineer-in-charge, of approved brand and manufacture, diluted with solvent mineral Turpentine oil in the ratio of 1:12 (One part of approved chemical :12 Part of Turpentine oil), on the existing sand stone masonry surface with two or more coats to give uniform application of chemical on the surface, all complete as per direction of Engineer-In-charge (The rate is inclusive of all materials & labours involved except scaffolding)	142.860	sqm	80.40	11485.94
<b>WATER PROOFING</b>					
35	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:				
	(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 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 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 1:5 (1 cement :5 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.				
	(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 Engineering-charge.				

	(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineering-charge including laying glass fibre cloth 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.				
	(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	With average thickness of 120 mm and minimum thickness at khurra as 65mm.	31.000	sqm	1232.45	38205.95
36	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
	In 75x75 mm deep chase	23.000	metre	223.25	5134.75
	<b>ALUMINIUM WORK</b>				
37	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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt 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 Engineer-in-charge. (Glazing and paneling to be paid for separately) :				
a )	For fixed portion				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	18.600	kg	388.40	7224.24
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 PVC / neoprene gasket required (Fittings shall be paid for separately).				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	8.100	kg	464.16	3759.70

38	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 engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
a)	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	8.100	sqm	860.94	6973.61
	<b>FOOTPATH</b>				
	<b>CONCRETE WORKS</b>				
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	234.337	cum	4983.63	1167848.90
	<b>FOOTPATH &amp; PAVEMENT WORK :</b>				
2	Earth work in surface excavation 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:				
	All kinds of soil	1195.000	sqm	95.00	113525.00
3	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	1195.000	sqm	160.15	191379.25
4	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	340.575	cum	18.18	6191.65
5	Construction of <b>granular sub-base</b> by providing close graded Material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.				
	With material conforming to Grade-I (size range 75 mm to 0.075 mm) having CBR Value-30	89.076	cum	2036.76	181426.43

6	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement 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 sharp curve shall not be more than 5mm) including making drainage opening wherever required complete etc. as per direction of engineer-in-charge (length of finished kerb edging shall be measured for payment).(Precast C.C. kerb stone shall be approved by engineer-in-charge).	24.912	cum	7402.00	184398.62
7	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways 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 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.				
	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	1455.000	sqm	764.99	1113060.45
8	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand), including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone.				
	Red sand stone	687.225	sqm	1116.45	767252.35
9	Providing and fixing 10x10x7.50 cm Granite stone block hand cut and chisel dressed on top, for paving in floors, drains etc. laid over 20mm thick base mortar 1:4 (1 cement : 4 coarse sand) with joints 10mm wide filled with same mortar including ruled pointing etc. complete as per direction of engineer-in-charge.	355.000	sqm	1601.57	568557.35
	<b>STAMBH</b>				
	<b>EARTH WORK</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
	All kinds of soil	68.000	cum	129.86	8830.48
	<b>CONCRETE WORKS</b>				

2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	4.500	cum	4983.63	22426.34
	REINFORCED CEMENT CONCRETE WORK				
	FORM WORK				
3	Centring and shuttering including strutting,propping etc. and removal of form for				
a )	Foundations, footings, bases of columns etc. for mass concrete.	40.000	sqm	286.90	11476.00
b )	Columns,Pillars, Piers, Abutments, Posts and Struts	117.750	sqm	703.28	82811.22
	STEEL REINFORCEMENT				
4	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth & above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1760.000	kilogram	78.90	138864.00
5	Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500	1600.000	kilogram	78.90	126240.00
6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
a )	All works upto plinth level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	22.000	cum	6953.64	152980.08
b )	All works above plinth level upto floor V level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	20.000	cum	7213.83	144276.60

7	Add for using extra cement in the items of design mix over and above the specified cement content therein.	672.000	quintal	536.63	360615.36
	<b>CLADDING WORK</b>				
	<b>FOR STAMBH</b>				
8	Stone work for cladding, carving, moulding, cornices, string, courses etc.(by using 6 axis CNC machine), ornamental work, traditional work, figure work (below under mentioned type, thickness, any size) in Sandstone, etc. for below mentioned items : Providing and fixing White sand stone work in capitol/copings, cornices, string courses and plinth courses, upto required thickness in Cement mortar 1:6 (1 cement : 6 coarse sand), including pointing with white cement mortar 1:2 (1 white cement : 2 stone dust) with an admixture of pigment matching the stone shade, Applying breathable, non-reactive, antifungal, and water repellent Silane/ Siloxane chemical etc including rubbing, curing and polishing etc including transportation, loading, unloading using mechanical equipments/machine , stacking, scaffolding ( For all heights), cleaning , fixing, joint filling, polishing, grinding, necessary lifting machinery, placing,etc. complete. (prior mediatory approval of sample/ brand before use ) complete in all aspects as per Architect specifications/ drawing and as directed by	19.759	cum	95736.71	1891661.65
	<b>BENCHES &amp; DUSTBIN</b>				
	<b>PRECAST BENCHES</b>				
1	<b><u>PRECAST RECTANGULAR BENCHES</u></b> Providing and fixing □ Overall Dimensions: Sitting platform size - 1500 mm length X 450mm width X 100mm thickness; Leg size - 350mm Height X 450mm Width X 150mm thickness; Sitting height is 450 mm □ Sitting platform is in Red colour while the legs are in grey colour □ Manufactured by using M-30 grade of Concrete using vibro compaction process □ Suitably reinforced to promote long use and to prevent damage during handling, transportation & erection □ Treated with special anti-corrosive, water proof coating so as to make the surface glossy and water proof etc. all complete as per direction of Engineering-in-	20.000	each	5722.75	114455.00

2	<b>PRECAST DUSTBINS</b> Providing and fixing FRP Dustbin with Concrete Base Overall dimensions: Height:750 mm; Top Diameter: 420 mm □ Capacity: 60 liters □ Dustbin manufactured from FRP and the base manufactured from M-30 grade of Concrete □ Base is reinforced suitably to promote long use and to prevent damage during handling & transportation □ FRP bin has logo embedded etc. all complete as per direction of Engineering-in-Charge.	10.000	each	2056.18	20561.80
	<b>UGT</b>				
	<b>EARTH WORK</b>				
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
	All kinds of soil	218.000	cum	129.86	28309.48
2	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.				
a )	All kinds of soil (From 1.5 to 3 m depth)	102.000	cum	92.77	9462.54
b )	All kinds of soil (From 3.00 to 3.50 m depth)	14.000	cum	185.53	2597.42
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 upto 1.5 m.	218.000	cum	143.39	31259.02
	<b>CONCRETE WORKS</b>				
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	5.544	cum	4983.63	27629.24
	<b>REINFORCED CEMENT CONCRETE</b>				
	<b>FORM WORK</b>				
5	Centring and shuttering including strutting,propping etc. and removal of form for				
a )	Foundations, footings, bases of columns etc. for mass concrete.	10.150	sqm	286.90	2912.04
b )	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	195.000	sqm	616.37	120192.15
c )	Suspended floors, roots, landings, balcnies and access platform.	50.000	sqm	678.37	33918.50

d )	Shelves (Cost in situ)	5.000	sqm	678.37	3391.85
e )	Lintels, beams, plinth bams, griders, bressumers and cantilevers.	15.000	sqm	538.75	8081.25
f )	Columns,Pillars, Piers, Abutments, Posts and Struts	9.384	sqm	703.28	6599.58
g )	Stairs, (excluding landings) except spiral-staircases	18.900	sqm	559.63	10577.01
h )	Edges of slabs and breaks in floors and walls Under 20 cm wide	13.000	metre	152.57	1983.41
i )	Weather shade, Chajjas, corbels etc., including edges	7.800	sqm	695.82	5427.40
<b>STEEL REINFORCEMENT</b>					
6	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth & above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	3360.000	kilogram	78.90	265104.00
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending,placing in position and binding all complete above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500	800.000	kilogram	78.90	63120.00
8	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
a )	All works upto plinth level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	42.000	cum	6953.64	292052.88
b )	All works above plinth level upto floor V level				
	Concrete of M25 grade with minimum cement content of 330 kg /cum	10.000	cum	7213.83	72138.30

9	Add for using extra cement in the items of design mix over and above the specified cement content therein.	10.400	quintal	536.63	5580.95
	<b>MASONRY WORK</b>				
10	Providing and laying Autoclaved Aerated concrete(AAC) blocks masonry with 150mm to 300 mm thick with Grade-1 AAC blocks of density 551 to 650 kg/cum conforming to IS:2185 (Part 3) in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately)	7.004	cum	6096.87	42702.48
	<b>WOOD WORK</b>				
11	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:				
a )	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	2.100	sqm	1230.55	2584.16
12	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of flush door shutters (over all area of door shutter to be measured).	2.100	sqm	237.77	499.32
13	Extra for providing vision panel not exceeding 0.1 sqm in all type of flush doors (cost of glass excluded) (overall area of door shutter to be measured):				
a )	Rectangular or square.	2.100	sqm	102.42	215.08
14	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality.				
	1.0 mm thick	4.200	sqm	461.64	1938.89
	<b>HARDWARES FITTINGS FOR DOOR</b>				
	Providing and fixing approved brand and manufacturer SS 304 grade hardware's for Doors etc.				
	<b>WOODEN</b>				
15	Providing and fixing approved brand and manufacture SS 304 grade Mortise Dead Lock with 60mm Backset fixed fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	1353.85	1353.85

16	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 250mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	440.41	440.41
17	Providing and fixing approved brand and manufacture SS 304 grade Tower bolt 150mm long with 10mm dia fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.		each	306.08	
18	Providing and fixing approved brand and manufacture SS 304 grade wall mounted door buffer fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	373.25	373.25
19	Providing and fixing approved brand and manufacture SS 304 grade Door Stopper - door mounted hanging type fixed with SS screws etc. complete in all respects as per manufacturers' specifications & as directed by Engineer-in-charge.	1.000	each	434.65	434.65
20	Providing and fixing bright /matt finished Stainless Steel handles of approved quality & make with necessary screws etc all complete.				
a)	125 mm	2.000	each	87.21	174.42
21	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 36kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	1.000	each	719.27	719.27
<b>STEEL WORK</b>					
22	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.				
a)	Hot finished welded type tubes	120.750	kg	142.22	17173.07
23	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
a)	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works		kg	126.27	
<b>FLOORING</b>					

24	<b>Kota stone slab flooring</b> 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) :				
a )	25 mm thick	27.900	sqm	1425.33	39766.71
25	<b>Kota stone slabs 20 mm thick in risers</b> of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	2.790	sqm	1722.69	4806.31
26	Extra for pre finished nosing to treads of steps of Kota/Sand stone.	31.500	metre	140.03	4410.95
27	Extra for Kota/Sand flooring in treads of steps and risers using single length above normal size up to 2.00 metre .	14.400	sqm	32.30	465.12
28	Providing and fixing 1st quality <b>ceramic glazed</b> floor 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 Engineer-in-Charge in <b>skirting, risers</b> of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	98.800	sqm	814.05	80428.14
29	Providing and laying rectified Glazed <b>Ceramic floor tiles of size 300x300mm</b> or more (thickness to be specified by the manufacturer), of 1st quality 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 @ 3.3 kg/sqm including grouting the joints with white cement and matching pigments etc., complete.	30.000	sqm	973.02	29190.60
<b>SUB HEAD-VIII :- PAINTING AND FINISHING WORK</b>					
30	12mm cement plaster of mix :				
a )	1:6 (1 cement: 6 coarse sand)	61.050	sqm	251.41	15348.58
31	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	32.400	sqm	379.37	12291.59
32	6 mm cement plaster of mix :				
a )	1:3 (1 cement : 3 fine sand)	27.900	sqm	219.81	6132.70

33	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.	121.350	sqm	114.17	13854.53
34	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gram/litre, of approved manufacturer and of required shade and colour all complete to achieve even shade and colour :				
a )	New work (two or more coats) over and including water thinnable priming coat with cement primer having VOC content less than 50 gram/litre	88.950	sqm	135.82	12081.19
35	Painting with synthetic enamel paint of approved brand and manufacture of required color to give an shade.				
a )	Two or more coats on new work including priming coat of ordinary paint approved brand.	18.113	sqm	165.52	2998.06
36	Finishing walls with textured exterior paint of required shade : New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	32.400	sqm	163.58	5299.99
37	Providing & fixing galvanized low carbon wire, annealed wire Chicken mesh formed by twisting two adjacent wires at least four times, forming a hexagonal shaped strong honeycomb mesh structure on joints of RCC & Brick work before plastering, of required gauge (not less than 21 gauge)and size with nails etc. complete as specified in drawing and as per the Direction of Engineer-in-charge	9.345	sqm	139.13	1300.17
	<b>WATER PROOFING</b>				
38	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations:				
	(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 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 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 1:5 (1 cement :5 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.				
	(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 Engineering-charge.				
	(d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineering-charge including laying glass fibre cloth 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.				
	(e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
	With average thickness of 120 mm and minimum thickness at khurra as 65mm.	39.000	sqm	1232.45	48065.55
39	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
a )	In 75x75 mm deep chase	13.000	metre	223.25	2902.25
	<b>ALUMINIUM WORK</b>				
40	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, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt 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 Engineer-in-charge. (Glazing and paneling to be paid for separately) :				
a )	For fixed portion				

	Powder coated aluminium (minimum thickness of powder coating 50 micron)	26.500	kg	388.40	10292.60
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 PVC / neoprene gasket required (Fittings shall be paid for separately).				
	Powder coated aluminium (minimum thickness of powder coating 50 micron)	12.968	kg	464.16	6019.23
<b>HORTICULTURE &amp; LANDSCAPE WORK</b>					
<b>EARTH WORK</b>					
1	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-incharge.				
	All kinds of soil	290.000	cum	129.86	37659.40
2	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 upto 1.5 m.	290.000	cum	143.39	41583.10
<b>CONCRETE WORKS</b>					
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	29.562	cum	4983.63	147326.07
<b>REINFORCED CEMENT CONCRETE WORK</b>					
<b>FORM WORK</b>					
4	Centring and shuttering including strutting,propping etc. and removal of form for				
a)	Foundations, footings, bases of columns etc. for mass concrete.	58.916	sqm	286.90	16903.00
b)	Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	206.206	sqm	616.37	127099.19
<b>STEEL REINFORCEMENT</b>					
5	Steel reinforcement for R.C.C. work including straightening, cutting,bending, placing in position and binding all complete upto plinth & above plinth level.				
	Thermo-Mechanically Treated bars of grade Fe-500D or more.	3864.890	kilogram	78.90	304939.82

6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.				
	All works upto plinth level				
a)	Concrete of M25 grade with minimum cement content of 330 kg /cum	48.311	cum	6953.64	335937.30
	MASONRY WORK				
7	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
a)	Cement mortar 1:6 (1 cement : 6 coarse sand)	69.489	cum	5217.93	362588.74
8	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	106.216	sqm	321.35	34132.51
9	Providing and fixing 18mm thick gang saw cut Granite stone work for wall lining, backing filled with a grout of average 12 mm thick in cement mortar 1:3 (1cement : 3 coarse sand) including pointing with white cement mortar with an admixture of pigment to match the granite shade complete as per direction of Engineer-in-charge.	160.504	sqm	6589.85	1057697.28
	WATER PROOFING				
10	Providing and laying The GEOWEB® geocell wall sections are manufactured from textured, perforated strips of high density polyethylene that are bonded together to create a network of interconnected cells. Fascia strips are non-perforated, UV-stabilized for long-term durability and are available in green and tan colors. Fascia strips are also available with pre-punched I-slots for establishing consistent mechanical junctions across the face of the wall using ATRA Wall Key connectors. GEOWEB® walls can be used in a variety of earth retaining structure configurations including gravity and reinforced walls, reinforced slopes and fascia walls.	19937.650	sqm	724.42	14443232.41

11	Providing and laying for covering top of membrane with Geotextile, 120 gsm non woven, 100% polyester of thickness 1 to 1.25 mm bonded to the membrane with intermittent touch by heating the membrane by Butane Torch as per manufactures recommendation.	950.000	sqm	166.95	158602.50
12	Providing and applying integral crystalline slurry of hydrophilic in nature for waterproofing treatment to the RCC structures like retaining walls of the basement, water tanks, roof slabs, podiums, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc., prepared by mixing in the ratio of 5 : 2 (5 parts integral crystalline slurry : 2 parts water) for vertical surfaces and 3 : 1 (3 parts integral crystalline slurry : 1 part water) for horizontal surfaces and applying the same from negative (internal) side with the help of synthetic fiber brush. The material shall meet the requirements as specified in ACI-212-3R-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any				
a)	For vertical surface two coats @ 0.70 kg per sqm per coat	20.535	sqm	345.97	7104.49
	FOOTPATH & PAVEMENT WORK :				
13	Earth work in surface excavation 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:				
	All kinds of soil	110.720	sqm	95.00	10518.40
14	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	578.220	sqm	160.15	92601.93
15	Extra for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (proctor density).	164.793	cum	18.18	2995.94

16	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement 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 sharp curve shall not be more than 5mm) including making drainage opening wherever required complete etc. as per direction of engineer-in-charge (length of finished kerb edging shall be measured for payment).(Precast C.C. kerb stone shall be approved by engineer-in-charge).	24.912	cum	7402.00	184398.62
	HORTICULTURE & LANDSCAPING WORK				
17	Trenching in ordinary soil up to a depth of 60 cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly levelling within a lead of 50 m and making up the trenched area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure).	115.200	cum	64.52	7432.70
18	Supplying and stacking of good earth at site including royalty and carriage up to 1 km (earth measured in stacks will be reduced by 20% for payment).	497.150	cum	425.93	211751.10
19	Supplying and stacking at site dump manure from approved source, including carriage up to 1 km (manure measured in stacks will be reduced by 8% for payment) :				
a)	Screened through sieve of I.S. designation 20 mm	84.000	cum	209.95	17635.80
b)	Screened through sieve of I.S. designation 16 mm	84.000	cum	240.14	20171.76
c)	Screened through sieve of I.S. designation 4.75 mm	84.000	cum	264.27	22198.68
20	Fine dressing of the ground	2721.920	sqm	3.06	8329.08
21	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and / or good earth to be paid separately).	252.000	cum	43.25	10899.00
22	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge..	252.000	cum	30.19	7607.88

23	Providing and laying Neelgiri/Korean grass turf with earth 50mm to 60mm thickness of existing ground prepared with proper level and ramming with tools wooden (Dhurmos) and than rolling the surface with light roller make the surface smoothen and light watering with sprinkler and maintenance for 30 days or more till the grass establish properly, as per direction of officer-in-charge.	1680.000	sqm	177.11	297544.80
24	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :				
a)	Holes 60 cm dia, and 60 cm deep.	200.000	each	36.14	7228.00
b)	Holes 45 cm dia, and 45 cm deep.	300.000	each	15.45	4635.00
25	Providing & fixing of White River (Stone) Pebbles size of 2" to 2.50" dia in natural colour at site of work including loading, unloading, carriage and all taxes paid etc.and as per direction of officer in charge.	938.109	Per Qtl.	504.49	473266.61
A )	TREE PLANTS				
i )	Providing and stacking of Cassia fistula (Amaltash) of height 120-135 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	50.000	each	53.70	2685.00
ii )	Providing and stacking of Bauhinia purpurea (Kachnar) of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	80.000	each	41.30	3304.00
iii )	Providing and stacking of Azadirachta indica ( Neem ) of height 120-130cm in big polybag of size 25 cm as per direction of the officer-in-charge.	50.000	each	53.70	2685.00
iv )	Providing and stacking of Mimusops elengi (Maulsri) of height 180-195 cm., well developed with thick stem in big in big size HDPE bag as per direction of the officer-in-charge.	50.000	each	103.26	5163.00
v )	Providing and stacking of Callistemon lanceolatus of height 150-165 cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	50.000	each	53.70	2685.00
vi )	Providing and stacking of Saraca indica (Sita Ashok) of height 105-120cm. in big poly bags of size 25 cm as per direction of the officer-in-charge.	100.000	each	66.09	6609.00
B )	GROUND COVERS PLANTS				
i )	Providing and stacking of Tradescantia, full of leaves in Earthen Pot/Plastic Pot of size 15 cm. as per direction of the officer-in-charge.	45.000	each	17.35	780.75

ii )	Providing and stacking of Wedelia trilobata,full of leaves in 15 cm size of Earthen Pot/Plastic Pot & as per direction of the officer-in-charge.	50.000	each	12.39	619.50
iii )	Providing and stacking of Syngonium golden of height 30-45 cm. with 2-3 suckers healthy foliage in Earthen Pot/Plastic Pot of size 20 cm. as per direction of the officer-in-charge.	30.000	each	24.78	743.40
C )	<b>SHRUBS AND PERINNIAL HERBS</b>				
i )	Providing and Displaying Bougainvillea named variety, Sobhra, Thima, Marry palmar, Cherry Blossom etc. well developed with fresh & healthy bushy in full bloom 75 to 90 cm ht. in 40 cm Cement Pot as per direction of the officer-in-charge.	100.000	each	266.74	26674.00
ii )	Providing and stacking of Cassia biflora of height 90-105 cm., well branched, bushy in big size HDPE bag as per direction of the officer-in-charge.	100.000	each	82.61	8261.00
iii )	Providing and stacking of Ficus panda of height 60-75 cm, with 8-10 branches, and healthy foliage, bushy in big size HDPE bag as per direction of the officer-in-charge.	70.000	each	148.70	10409.00
D )	<b>CREEPER PLANTS</b>				
i )	Providing and stacking of Quisqualis indicia of height 30 cm to 45 cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge.	80.000	each	20.65	1652.00
ii )	Providing and stacking of Clerodendrum splendens of height 30 cm to 45cm. in 20 cm size of Earthen pots / Plastic pots & as per direction of the officer-in-charge.	80.000	each	24.78	1982.40
	<b>ELECTRICAL WORK</b>				
1.0	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
1.1	Group C	20.000	Point	1073.25	21465.00
2.0	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point ( without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.				
2.1	Group C	30.000	Point	627.71	18831.30
3.0	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	1000.000	Metre	244.35	244350.00
4.0	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
4.1	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	600.000	Metre	201.19	120714.00

5.0	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	10.000	Each	348.97	3489.70
6.0	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	10.000	Each	428.72	4287.20
7.0	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).				
7.1	8 Way (4+24), Double Door	1.000	Each	4365.44	4365.44
8.0	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, C series Miniature Circuit Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc.as required.				
8.1	Single pole	18.000	Each	187.29	3371.22
9.0	Supplying and fixing following rating, four pole, 415 volts, MCB complete with connections, testing and commissioning etc. as required.				
9.1	40 Amp	1.000	Each	2628.07	2628.07
10.0	Supplying and fixing of following rating double pole (Single phase and neutral) 240 volts, residual current circuit breaker (RCCB), having a current sensivity current 30 miliampere in the existing MCB DB complete with connections, testing & commissioning etc. as required.				
10.1	40 Amp	3.000	Each	1932.88	5798.64
11.0	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
11.1	25 mm	500.000	Metre	106.08	53040.00
11.2	32 mm	200.000	Metre	134.61	26922.00
12.0	Supply of following sizes of ISI marked aluminium / copper conductor XLPE insulated cable as per IS 7098, armoured, served, sheathed 1100 volts grade. (Cable shall be purchased only after approval of cable schedule by architect / consultant).				
12.1	2 core, 6 sq.mm	3680.000	Meter	155.44	572019.20
12.2	2 core, 10 sq.mm	2000.000	Meter	195.74	391480.00
12.3	4 core, 10 sq.mm	150.000	Meter	278.26	41739.00
12.4	3.5 core, 35 sq.mm.	350.000	Meter	442.33	154815.50
13.0	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
13.1	Upto 35 sq. mm	4500.000	Meter	283.13	1274085.00
14.0	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
14.1	2 x 6 sq. mm (19mm)	45.000	Each	175.58	7901.10
14.2	2 x 10 sq. mm (19mm)	35.000	Each	176.31	6170.85
14.3	4 X 10 sq. mm (25mm)	2.000	Each	196.80	393.60
14.4	3½ X 35 sq. mm (32mm)	2.000	Each	269.96	539.92

15.0	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc..direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.				
15.1	120 mm dia (OD-120 mm & ID-103 mm nominal)	325.000	Meter	269.23	87499.75
16.0	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2.000	Each	5466.49	10932.98
16.1	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	5250.000	Meter	37.31	195877.50
16.2	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	20.000	Meter	178.51	3570.20
<b>S. H. - II</b>	<b>LIGHT FIXTURE &amp; POLES</b>				
1.0	Supply, Installation, Testing & Commissioning of exterior IP68 LED RGB/RGBW Flexible light strip of 5 mtr standard length with 10-15 Watt per meter which can be compatible with the DMX / Ethernet controller. Minimum System lumens of minimum 450 lumens/meter and System Lumen Efficacy > 30lm/w. Luminaire light beam spread - 110°, The Strip should have IP 68 protection and is offered IP 67 rated connector to join the LED Strips incontinuity. The luminaire must be offered with Aluminum channel for mounting the strip lights. The product should be complete with all accessories and Driver. The successful bidder shall submit the following certifications/reports for approval before supply of materials: product data sheets, LM79 report from NABL accredited lab, illuminance diagram, polar curve & LM80 report issued by LED manufacturer & RoHS Compliance along with CE certificate. The bidder shall upload the luminaire BIS certificate along with technical bid. The luminaire shall be supplied with necessary connectors for connecting lead/jump cables(5m length/roll). <b>(Make-Philips/Signify Cat. Ref. No: BGC301 RGB L5000. or equivalent )</b>	40.000	Roll	25025.68	1001027.20

2.0	<p>Supply, Installation, Testing &amp; Commissioning of Circular shape architectural RGBW (W=4000K) LED flood light with integral driver &amp; housing made of Die-cast aluminium alloy. The luminaire shall be no bigger than Ø 170 X 164 (±10%) with bracket. The luminaire shall have electrostatically applied polyester powder coating finish. The luminaire bracket shall be made of cold-rolled steel &amp; shall be so designed that the luminaire can be tilted to ±90°. The bracket shall have locking mechanism to fix &amp; secure the desired tilt angle. The luminaire shall have silicon gasket between optical cover &amp; LED chamber to ensure proper IP66 protection. The luminaire must have a breather gland. The nominal weight of the luminaire shall not be more than 3KG. The luminaire shall be equipped with high-power Cree, osram, lumiled or equivalent. The fixture shall have 10° beam angle (±10%) &amp; the lens shall be made of anti-aging &amp; anti UV-PMMA material. The optical cover shall be made of IK06 rated clear tempered glass. The LEDs shall have minimum CRI ≥80 for white light &amp; shall have SDCM≤4. The fixture shall come with power &amp; DMX cable of minimum 100mm length. The fixtures shall be installed with have IP67 connectors. The</p>	45.000	Each	69515.78	3128210.10
3.0	<p>Supply, Installation, Testing &amp; Commissioning of Circular shape architectural RGBW (W=4000K) LED flood light with integral driver &amp; housing made of Die-cast aluminium alloy. The luminaire shall be no bigger than Ø 225 X 205 (±10%) with bracket. The luminaire shall have electrostatically applied polyester powder coating finish. The luminaire bracket shall be made of cold-rolled steel &amp; shall be so designed that the luminaire can be tilted to ±90°. The bracket shall have locking mechanism to fix &amp; secure the desired tilt angle. The luminaire shall have silicon gasket between optical cover &amp; LED chamber to ensure proper IP66 protection. The luminaire must have a breather gland. The nominal weight of the luminaire shall not be more than 6KG. The luminaire shall be equipped with high-power Cree, osram, lumiled or equivalent. The fixture shall have 10° beam angle (±10%) &amp; the lens shall be made of anti-aging &amp; anti UV-PMMA material. The optical cover shall be made of IK06 rated clear tempered glass. The LEDs shall have minimum CRI ≥80 for white light &amp; shall have SDCM≤4. The fixture shall come with power &amp; DMX cable of minimum 100mm length. The fixtures shall be installed with have IP67 connectors. The</p>	40.000	Each	102883.35	4115334.00

4.0	<p>Supply, Installation, Testing &amp; Commissioning of Circular shape architectural RGBW (W=4000K) LED flood light with integral driver &amp; housing made of Die-cast aluminium alloy. The luminaire shall be no bigger than Ø 285 X 225 (±10%) with bracket. The luminaire shall have electrostatically applied polyester powder coating finish. The luminaire bracket shall be made of cold-rolled steel &amp; shall be so designed that the luminaire can be tilted to ±90°. The bracket shall have locking mechanism to fix &amp; secure the desired tilt angle. The luminaire shall have silicon gasket between optical cover &amp; LED chamber to ensure proper IP66 protection. The luminaire must have a breather gland. The nominal weight of the luminaire shall not be more than 8KG. The luminaire shall be equipped with high-power Cree, osram, lumiled or equivalent. The fixture shall be available at different beam angles like 3.5° (±10%) &amp; the lens shall be made of anti-aging &amp; anti UV-PMMA material. The optical cover shall be made of IK06 rated clear tempered glass. The LEDs shall have minimum CRI ≥80 for white light &amp; shall have SDCM≤4. The fixture shall come with power &amp; DMX cable of minimum 100mm length. The fixtures shall be installed</p>	19.000	Each	136250.92	2588767.48
5.0	<p>Supply, Installation, Testing &amp; Commissioning of 12W LED Garden spike light fixture, well-designed modern and rugged Garden Spike is a great addition to highlight your garden spaces. COB integrated lighting keeps the product high on light dispersion and efficiency. Key features are 80% energy savings, outdoor ambient lighting , protection against dust &amp; jet of water from any direction, IP65 fixture ideal for outdoor &amp; wet areas, housing made with aluminium with black finish, LED integrated, IP65 protection, system wattage: 12W at system lumens of 675lm, CCT: 3000K, product dimension: 131mm x 89mm x 243mm (±10%),. <b>(Make-Philips/Signify Cat. Ref. No: Spike light 12W (Model no: 800139 or equivalent )</b></p>	45.000	Each	2187.66	98444.70
6.0	<p>Supply, Installation, Testing &amp; Commissioning of 3W recessed mounted step light fixture with neatly designed modern and minimal step light melds into the background settings and provides just the right ambient illumination to create an interesting setting. Key features are LED light with beautiful light pattern, highlight the outdoors, endurance meets contemporary style, clean lines, sleek design, warm white light ,robust finish, long life LED source, system wattage of 3W with system lumens of 85lm, housing made with aluminium, LED integrated, product dimensions: 115 x 84 x 44 (in mm) (±10%), CCT: 3000K, IP44 protection. <b>(Make-Philips/Signify Cat. Ref. No: 34152 or equivalent )</b></p>	95.000	Each	3104.94	294969.30

7.0	<p>Supply, Installation, Testing &amp; Commissioning of ground mounted Mono colour 12W luminaire made up of die-casting aluminum housing with stainless steel trim frame &amp; high quality tempered glass cover , Dimension Ø140mm H150mm with recess mounting box. The luminous flux of the luminaire is in the range of 840lm, Beam angle 20°. The ingress protection is IP67 and impact resistance of IK10. The luminaire is integrated with LED, CRI&gt;70, CCT: 3000K. Integral driver comes with power factor greater than or equal to 0.9 and a surge protection up to 2KV . The driver input voltage 110~240Vac at 50-60Hz and operating temperature of -40 ~ +50°C with CE/CB/EMC approbation. Life of the fixture should be 50K hours L70B50 @ ta 35°C, SDCM&lt;4. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval. <b>(Make-Philips/Signify Cat. Ref. No: BBP342 G2 or equivalent )</b></p>	95.000	Each	25025.68	2377439.60
8.0	<p>Supply, Installation, Testing &amp; Commissioning of Content Program Controller with features of Single DMX ports control minimum 300 light addresses, Works as a stand-alone or computer-driven controller, Secure Digital (SD) card drive for flexible show storage, USB 2.0 interface for downloading shows and configuring from attached PC, Flexible, adaptable mounting options ,Should be provided with light show authoring software, Direct line voltage power supports 100-240VAC, Minimum Five pre configurable effects :Using light authoring software to select from five pre-defined effects, adjust effect settings such as color, speed, and brightness. Soft Copy of Catalogues with Link of the official web page of Luminaries, Test Certificates - relevant BIS R Number, UL Certificates, Third Party IEC 60598 test certificates submission is mandatory. <b>(Make-Philips/Signify Cat. Ref. No: iPlayer3 or equivalent )</b></p>	1.000	Each	179814.14	179814.14
9.0	<p>Supply, Installation, Testing &amp; Commissioning of RDM-6Wall Splitter, should be able to provide 6-output DMX/RDM splitter with DMX/RDM pass-through supporting bi-directional communications for discovery, addressing and DMX control of Ethernet/DMX products. This unit takes the incoming DMX/RDM signal and splits the signal into six separate output channels allowing for expanding the number of devices controlled from 32 to 6x32. The output terminals are electronically isolated from the input &amp; RDM-through port and share a common ground reference. All six output ports have an independent output driver to boost the DMX/RDM signal. Surface or DIN-rail mountable, Isolated DMX/RDM Input/Outputs, Automatic switching between DMX and RDM mode for auto-discovery, Environment-IP20, Interior applications, Finish/Color-Polycarbonate, Certification: CE Certified... <b>(Make-Signify /Philips cat ref. no: DMX Splitter/Booster or equivalent )</b></p>	2.000	Each	45602.16	91204.32

10.0	Supply, Installation, Testing & Commissioning of architectural bollard LED 3000K 230-240Vac 50-60Hz CRI > 80 Input power: 10W Electronic driver, IP rating IP65, impact resistance IK07. MATERIAL CHARACTERISTICS : Extruded aluminium bottom pipe Ø76 x H750mm with polycarbonate diffuser. Lumen output 800 lm, Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted. similar to Signify /Philips cat ref. no: BCP100. <b>(Make-Signify /Philips cat ref. no: BCP100 or equivalent )</b>	35.000	Each	11122.52	389288.20
11.0	Supply, Installation, Testing & Commissioning of 1000mm long rigid architectural RGBW (W=4000K) LED Linear light with integral driver & housing of Extruded aluminium alloy & die-cast aluminium end caps. The luminaire shall have electrostatically applied polyester powder coating finish. The luminaire width shall be 45mm & height of 55mm without brackets. The luminaire's integrated brackets shall be made of extruded aluminium & the same shall be so designed that the luminaire can be tilted ±95°. The luminaire shall have silicon glue between optical cover & LED chamber to ensure proper IP66 protection. The nominal weight of the luminaire shall be 3.5KG (±10%). The luminaire shall be equipped with high-power Cree, osram, lumiled or equivalent. The fixture shall have 16°X35° beam angle & the lens shall be made of anti-aging & anti UV-PMMA material. The optical cover shall be made of IK06 rated clear tempered glass. The LEDs shall have minimum CRI ≥80 & shall have SDCM≤4. The fixture shall come with power & DMX cable of minimum 100mm length. The fixtures shall be installed with have IP67 connectors. The luminaire shall have system wattage not exceeding 50W and system lumen output of	30.000	Each	65808.27	1974248.10
12.0	Supply, Installation, Testing & Commissioning of 33W Decorative suspended Luminaires BIS approved for Urban lighting, body made of die-cast aluminium, with PC cover, fixture dia of 498mm , height 291 mm, weight should not be less than 7.7 kg . The luminaire is provided with surge protection of 20 KV SPD. Electronic driver is having input voltage range from 110-277V AC at 50/60Hz. Minimum lumen 4000 lumens in CCT range of 3000/4000 as per ANSI,LED Make APT with LM80 report to be submitted at the time of Supply , life of 50000 burning hours with 70% of initial lumens maintained. working temperature range is -40 Deg. to 50 Deg. Luminaire should Maintain Ingress Protection of IP65 for better weather proofing and IK08. Manufacturer shall have inhouse lab approved by NABL or ministry of science of govt of India. LM 79 and LM80 reports need to be submitted from a NABL/UL accredited lab to verify above parameters. Both the fixture and Driver should have separate BIS approval. <b>(Make-Signify /Philips cat ref. no: BSS461 LED40 or equivalent )</b>	10.000	Each	35221.33	352213.30

13.0	Supply, Installation, Testing & Commissioning of 35W LED Postop made up of aluminium pressure die-cast aluminum with integrated pole top with polyester powder coating in addition to a specific weathering resistance treatment, color RAL7011.Non-yellowing transparent and textured Polycarbonate UV-protected round symmetrical diffuser 1.5 mm thick with circular radial pattern for glare-free and even light distribution. The fixture should have provision of simplified extraordinary maintenance by an easy to remove top openable driver compartment. High Efficiency long life LED module with SMD LED package mounted on MCPCB. Lumen Efficacy of LED>114Lm/W@ 5700K color temperature and CRI >70, CCT: 3000K/4000K/5700K. Powered by Built In electronic. LED driver with THD<10%, 4kV inbuilt surge protection, high cut off at 325V, auto-restart etc. Suitable for pole mounting having OD of 60 mm and height of 6 meters. Fixture Lumen>3900 Lm, IP 66(no glue), IK 10, PF>0.95, Operating voltage range: 120 V - 277 V Average life L70B50: 50000 hours. Luminaire manufacture shall provide LM79 report from NABL/UL accredited lab & LM80 report issued by LED manufacturer. Both the fixture and Driver should be of	4.000	Each	17610.66	70442.64
14.0	Supply, Installation, Testing & Commissioning of 3m height Conical Pole with PU painted double arm bracket. Material for pole section: Hot rolled product of non alloy structural steel grade S355, Other parts: MS as per IS 2062. Material as per BS EN 10025 equivalent to Indian standard.. Bottom (O.A.F.) 130mm and top (O.A.F.) 70mm. Size of Base Plate: 220 SQ, thickness of base plate should be minimum 16mm, hole PCD 220, hole dia 24mm. Tolerance on material thickness as per IS:2629. Pole shall be hot dip galvanized with coating thickness of 75 microns average as per IS: 2629. (Make- Signify /Philips/ Havells / Bajaj )	8.000	Each	32440.70	259525.60
<b>S.H.- III</b>	<b><u>EXTERNAL LIGHTING PANEL (OUTDOOR TYPE)</u></b>				
1.0	Design, Manufacturing, Supply, installation, Testing & Commissioning of Outdoor Type Panel with Front & Back double door, Top canopy, Mounting on Floor M.S. Stand etc totally enclosed free standing type water, moisture, dust and vermin proof Sub Distribution Board made out of 2.0 mm thick CRCA sheet complete with following equipments, including ammeter, ammeter selector switch, voltmeter, voltmeter selector switch, indicating lamps, CT's, internal wiring with suitable size wires/ cable, interconnection, painting etc as required.				
	<b><u>INCOMING</u></b>				
	1 No 100 Amp FP Moulded Case Circuit Breaker (35 KA) with 100 Amp 4 Pole Contactor & Timer.				
	1 No. Digital AVF Meter with inbuilt selector switch and CT' & SP MCB.				
	1 Set of phase indicating lamps.				
	1 Set of ON/OFF indicating lamps with SP MCB.				
	<b><u>BUS BARS</u></b>				
	200 Amp FP aluminium busbar with coloured heat shrinkable sleeve.				
	<b><u>OUTGOING</u></b>				
	30 Nos. 25 Amp DP MCB (10 KA)				
	05 Nos. 40 Amp DP MCB (10 KA)				
	04 Nos. 40 Amp FP MCB (10 KA)				

	Panel described as above	1.000	Set	234705.21	234705.21
	<b>EXTERNAL PHE SERVICE</b>				
	<b>EXTERNAL WATER SUPPLY</b>				
1	Providing and fixing forged brass nickel plated lever operated <b>ball valve</b> of full flow with forged brass hard chrome plated ball with min. working pressure of 15 Kg/cm <sup>2</sup> . Lever should be anti rust coating, complete in all respects.				
a)	32 mm dia	2.000	Nos.	966.22	1932.44
2	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required :				
b)	65mm dia	1.000	Each	3147.33	3147.33
	<b>GARDEN HYDRANT SYSTEM :</b>				
3	Providing and Laying uPVC water pipes (I.S:4985) of 10 Kg/cm <sup>2</sup> including all fittings, tees, bends, clamps, coupling and adaptors supports, and jointing with solvent joint, testing and necessary earth work in excavation, backfilling, disposal of surplus earth with a lead upto 50m complete, compaction and consolidation including bed concrete (if required), sand bedding all around UPVC pipe & fittings and thrust blocks at bends as per standard design (For garden hydrants).				
a)	25 OD	93.500	Meter	142.01	13277.94
b)	32 OD	82.500	Meter	208.21	17177.33
c)	40 OD	110.000	Meter	284.97	31346.70
d)	50 OD	82.500	Meter	305.12	25172.40
e)	63 OD	110.000	Meter	360.77	39684.70
4	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :				
a)	25 mm nominal bore	12.000	Each	339.50	4074.00
5	Construction brick masonry chamber (for Housing Lawn hydrant) Garden Hydrant with 75 class designation brick work in cement mortar 1:5 (1 cement : 5 fine sand) for valve, with CI surface box 100 x 100 x 75 mm (inside) with hinged cover fixed in cement concrete slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size)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) 12 mm thick finished with a floating coat of neat cement complete as per standard design.				
a)	300 x 300 x 500 mm deep With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	12.000	Each	1457.78	17493.36

6	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main.				
a)	25 mm nominal bore	1.000	Each	356.14	356.14
7	Constructing masonry Chamber 60x60x75 cm, inside in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for fire hydrants, with C.I. surface box 350x350 mm top and 165 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including 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 of class designation 7.5	6.000	Each	7575.64	45453.84
<b>S. H. - II</b>	<b>EXTERNAL SEWERAGE AND DRAINAGE SYSTEM</b>				
1	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete.				
a)	150 mm dia. R.C.C. pipe	85.000	Meter	407.10	34603.50
b)	250 mm dia. R.C.C. pipe	220.000	Meter	658.29	144823.80
c)	300 mm dia. R.C.C. pipe	110.000	Meter	727.43	80017.30
d)	450 mm dia. R.C.C. pipe	110.000	Meter	1185.19	130370.90
2	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) up to haunches of RCC pipes including bed concrete as per standard design :				
a)	150 mm Dia.	85.000	Meter	543.65	46210.25
b)	250 mm Dia.	220.000	Meter	743.96	163671.20
c)	300 mm Dia.	110.000	Meter	858.42	94426.20
d)	450 mm Dia.	110.000	Meter	1133.97	124736.70
3	Excavating trenches of required width for pipes, cables, etc., including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m, including getting out the excavated soil, and then returning soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed within a lead of 50 m. All Kinds of Soil				
a)	Pipes, cables etc., exceeding 80mm dia but not exceeding 300mm dia	375.000	Meter	257.63	96611.25
b)	Pipes, cables etc., exceeding 300 mm dia but not exceeding 600mm dia	100.000	Meter	402.20	40220.00

4	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
a)	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	7.000	Each	9342.89	65400.23
b)	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg). With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.000	Each	19318.17	38636.34
5	Extra for depth for manholes Size 90x80 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.000	Meter	6456.63	6456.63
6	Extra for depth for manholes Size 120 x90 cm With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.000	Meter	7744.31	7744.31

7	<p>Constructing Brick Masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 Coarse sand), inside cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded Stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design. External surface shall be finished with 15mm thick cement plaster 1:6 (1 cement : 6 Coarse sand) as per side conditions.</p> <p>0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.</p> <p>(Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for</p>	15.000	Nos.	9309.56	139643.40
8	<p>Constructing Brick Masonry circular type manhole 1.22 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement : 4 Coarse sand), inside cement plaster 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size) and making necessary channel in Cement Concrete 1:2:4 (1 Cement : 2 Coarse Sand : 4 Graded Stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design. External surface shall be finished with 15mm thick cement plaster 1:6 (1 cement : 6 Coarse sand) as per side conditions.</p> <p>0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.</p> <p>(Excavation, foot rests and 12 mm thick cement plaster at the external surface shall be paid for</p>	7.000	Nos.	18072.44	126507.08

8	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910 on 12 mm dia steel bar conforming to IS: 1786 having minimum cross section as 23 mm x 25 mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specification and having manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15cm cement concrete block 1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 20 mm nominal size) complete as per design.	93.000	Nos.	405.08	37672.44
9	Constructing brick masonry road gully chamber 45x45x77.5 cm with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) with precast R.C.C. vertical grating complete as per standard design :				
a)	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	10.000	Nos.	5039.97	50399.70
10	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete .				
a)	For pipes 250 to 300 mm diameter	1.000	Each	674.82	674.82
<b>S. H. - III</b>	<b>RAIN WATER HARVESTING PIT</b>				
1	<b>Providing and executing of modular type Harvesting pit (5.0 x 3.5 x 2.25M)</b>				
	Providing and executing Boring/ drilling bore well of required dia for casing /strainer pipe by suitable method as prescribed in IS 2800(Part I), Including collecting samples from different strata, preparing and submitting strata chart/bore log, Including hire & running charges of all equipment, tools, plants & machineries required for the job, all complete as per direction of engineer- in- charge , up to metre depth below ground level (a) All type of soil 200 mm dia.				
	Supplying, assembling, lowering and fixing in vertical position in bore well, PVC medium manually perforated pipe for numbers of required dia, including required hire and labour charges, fitting & accessories etc. All complete for all depths as per direction of engineer-in-charge, 160 mm nominal size dia.				

	Supply and fixing Gravel/stone aggregate for packing in the bore well				
	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas including getting out and disposal of excavated earth lead up to 50m and lift up to 1.5m, as directed by Engineer-in-charge. a) All kinds of soil				
	Supplying, filling, spreading & leveling stone boulders of size range 20mm to 30mm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge				
	Supplying and filling in plinth with sand under floors, including, ramming, consolidating and dressing complete.				
	Providing, Installation and fixing of of Recycled poly propylene modular structure with large plates/modular and small plates/modular having more than 96% void volume ratio fixed in arrangements as per approved pattern/design to bear ultimate compressive stress recycled polypropylene material with crush load capacity of 25-30 tons per square metre and suitable for 40 tons moving traffic load on entire pit (with adequate backfill) . (the design to be approved from the Engineer-in-charge) complete as per direction of Engineer-in-charge.(Modular structure load capacity is 25-30 tons per sqm)				
	Providing & Installation of long fibre Geotextile membrane of weight 400gms./sqm. The Geotextile material shall be UV resistant and conforming to ASTM 154/EN 12224 type tested as per relevant international standard for tear, tensile strength, elongation %, puncture and percolation parameters, to act as a filter medium, including overlapping at joints and welding with extrusion welder etc. complete as per approved design directions of Engineer-in-charge.				
	Providing, fixing, installing, testing and commissioning of dual step filter of FRP Container with stainless steel 304 grade round double layer stainer, capable of eliminating finer particulate matter up to 600/80 microns in size, including connection with drain and pit complete as per approved design and direction of the Engineer-in-charge. Rainfilter (make) brand capacity 30Kl. (The filter should be tested by NARI Laboratory)				
	Connection of pipe upto filter and pit, solvent & testing of joints complete as per direction of Engineer-in- charge. External work : 160mm nominal inner dia pipes and Backfilling of the pit after installation	3.000	Set	588267.53	1764802.59
				<b>TOTAL</b>	<b>173147200.00</b>
				<b>IN LACS</b>	<b>1731.47</b>

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