



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

संदर्भ सं: भाविप्रा/अयोध्या/इंजी(सि)/डीवीओआर/कार्य-आदेश संख्या-
Ref: AAI/AYO/ENGG(C)/DVOR/W.O.No- 2116

दिनांक: 25.11.2022
Date: 25.11.2022

सेवा में/To,

एम/एस एम.एल. ब्रदर्स, , M/S M.L. Brothers,
फ22 117 सेक्टर 3 रोहिणी/ F22 117 Sector 3 Rohini,
दिल्ली-110085/Delhi-110085

विषय: कन्स्ट्रक्शन ऑफ डीवीओआर बिल्डिंग एंड अदर असोसिएटेड वर्क्स एट अयोध्या एयरपोर्ट
अयोध्या।

Sub: Construction of DVOR building and other associated works at Ayodhya Airport
Ayodhya.

संदर्भ: आपकी ई-निविदा 03.11.2022 को खोली गई

Ref.: Your e-Tender was opened on 03.11.2022.

महोदय / Sir (s),

1. उपरोक्त कार्य के लिए आपका ई-निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आप के द्वारा उद्धृत मद दर जिसकी कुल राशि रु. 50, 64,965 (रुपये पचास लाख चौसठ हजार नौ सौ पैंसठ रुपये) (जीएसटी अतिरिक्त) जो कि निविदा की लागत रु. 62,82,490 से 19.38% कम है, स्वीकृत किया जाता है।

Your E-Tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totalling to Rs. 50,64,965.00 (Rupees Fifty lakh Sixty-Four Thousand Nine Hundred Sixty-Five Only) (GST exclusive) which is 19.38% below the estimated cost put to tender of Rs. 62,82,490.00.

2. संयुक्त महा प्रबंधक (अभि.-सिविल), भारतीय विमानपत्तन प्राधिकरण, अयोध्या हवाई अड्डा, अयोध्या इस कार्य के प्रभारी अभियंता होंगे। आपसे अनुरोध है कि आप संविदा करार पर हस्ताक्षर करने एवं उसे पूरा करने हेतु इस पत्र के जारी किए जाने के 10 (दस) दिनों के भीतर संयुक्त महा प्रबंधक (अभि.-सिविल), भारतीय विमानपत्तन प्राधिकरण, अयोध्या हवाई अड्डा के कार्यालय में उपस्थित हों। संविदा करार रु 100/- (सौ रुपये मात्र) के न्यायिकेतर (नॉन ज्युडिशियल) स्टाम्प पेपर पर बनाया जाएगा और स्टाम्प पेपर की लागत आपको वहन करनी होगी।

Jt. General Manager Engg (C), AAI, Ayodhya Airport, Ayodhya shall be the Engineer-in-Charge of the work. You are requested to attend office of Jt. General Manager Engg (C), AAI, Ayodhya Airport within 10 (ten) days from the date of issue of this letter, to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.

3. संविदा करार के पेज नंबर जीसीसी-16 पर धारा नं. 1A के अनुसार आपके निविदा के साथ प्राप्त धरोहर राशि रुपये 1,25,650/- (रुपये एक लाख पाचीस हजार छे सौ पचास मात्र) को जमानत जमा के एक हिस्से के रूप में जमा माना जायेगा। कृपया इस पत्र के जारी होने के 10 दिन में सुरक्षा जमा के लिए रु 3,80,847.00 (केवल तीन लाख अस्सी हजार आठ सौ सैंतालीस रुपये) जमा करवा दें, ऐसा नहीं करने पर उक्त रकम संविदा दस्तावेज के पृष्ठ जीसीसी-16 पर दी गई शर्त 1A के अनुसार आपके रनिंग बिल से काट ली जाएगी।

Contd. in next page...

The Earnest Money amount of Rs. 1,25,650/- (Rupees One Lakhs Twenty-Five Thousand Six Hundred Fifty Only) received along with your tender will be treated and converted as part of security deposit as per Clause no. 1A on Page GCC-16 of contract document. Please deposit Rs 3,80,847.00 (Rupees Three Lakhs Eighty Thousand Eight Hundreds Forty-Seven only) towards Security Deposit within 10 (Ten) days from the date of issue of this letter, failing which, the same will be deducted from your running bill as per condition of Clause no. 1A on page GCC-16 of the Contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक (विनियमन एवं समापन) अधिनियम 1970 और संविदा श्रमिक (विनियमन एवं समापन केन्द्रीय नियमावली 1971, अधिन, केन्द्रीय और राज्य सरकार के न्यूनतम मजदूरी अधिनियम और ई.पी.एफ.एक्ट, 1952 एवं ई. एस. आई. एक्ट नियमों का पालन करें।

You are requested to comply with provision of Contract Labour (Regulation and Abolition) Act of 1970 and contract (Regulation and Abolition) Central rules 1971, Minimum Wages Act & Rules, EPF Act, 1952 and ESI act thereof Central & State Governments.

5. आपको निर्देश दिए जाते हैं कि सहायक महा प्रबंधक (अभि. - सिविल), भारतीय विमानपत्तन प्राधिकरण, अयोध्या हवाई अड्डा से तत्काल सम्पर्क करें जो कि आपको कार्यस्थल सुपर्द करने की व्यवस्था करेंगे।

You are also directed to contact Asst. General Manager (Engg.-C), AAI, Ayodhya Airport immediately who will arrange to hand over the site to you.

6. कृपया ध्यान दें कि कार्य को करने के लिए अनुमत समय 03 (तीन) महीने होगा जो की इस पत्र के जारी होने के बाद 10 वें दिन या वास्तविक तिथि, जो भी पहले हो, से शुरू हो जाएगा।

Please note that the time allowed for carrying out the work shall be 03 (three) months and the same shall be reckoned from the 10th day after issue of this letter or actual date of start whichever is Later.

7. संविदा के संबंध में आगे किया जाने वाला पत्राचार समान्यतः इंजीनियर प्रभारी से किया जाए।

Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.

8. कृपया इस पत्र की पावती भेजें तथा साथ में संलग्न इस पत्र की दुसरी प्रति पर स्वीकारोक्ति के रूप विधिवत हस्ताक्षर करके हमें वापस भेजें।

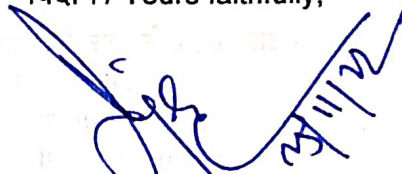
Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after duly signing it to the undersigned as a token of acceptance.

9. यदि कोई विसंगति पाई जाती है तो अंग्रेजी भाषा ही मान्य होगी।

In case any discrepancy is found, then English version will be taken as correct.

धन्यवाद/ Thanking you.

भवदीय / Yours faithfully,



Rajeev Kulshreshtha

संयुक्त महा प्रबंधक (अभि. - सिविल)

Jt. General Manager Engg. (C)

भा.वि.प्रा., अयोध्या हवाई अड्डा, अयोध्या

AAI, Ayodhya Airport, Ayodhya

संलग्न / Encl: 1. अनुसूची / Schedule

Tender Inviting Authority: Asstt.Gen.Manager(C)-II

Name of Work: Construction of DVOR building and other associated works at Ayodhya Airport, Ayodhya.

Contract No. 2022_AAL_128863_1

SCHEDULE OF WORK / ITEM(S)

SLNo	Description of Work / Item(s)	No. of Qty	Units	M/S M L BROTHER (GSTN: 02ABWPM6184GIZA)	
				Rate	Amount
1.00	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-in-charge. a) All kinds of soil	329.00	Cum	150.00	49350.00
2.00	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m. a) All kinds of soil.	98.00	Cum	150.00	14700.00
3.00	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :a) All kinds of soil i) Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm	499.00	Mtr.	100.00	49900.00
4.00	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.	83.00	Cum	100.00	8300.00
5.00	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials. A) All kinds of soil	89	Cum	200.00	17800.00
6.00	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	19.00	Cum	800.00	15200.00
7.00	Supplying chemical emulsion in sealed containers including delivery as specified. Aa) Chlorpyrifos/ Lindane emulsifiable concentrate of 20%	35.00	Ltr.	200.00	7000.00
8.00	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Along the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc.: i) With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	34.00	Mtr.	250.00	8500.00
9.00	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :a) Treatment of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 ce-ment : 2 coarse sand) to the full depth of the hole : i) With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	69.00	Mtr.	450.00	31050.00
10.00	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)	11.00	Cum	6000.00	66000.00
11.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : a) 1:4:8 (1 Cement : 4 coarse sand (zone-III) derived from natural sources : 8 graded stone aggregate 40 mm nominal size derived from natural sources)	217.00	Cum	4200.00	911400.00
12.00	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	13.00	Sqm.	300.00	3900.00
13.00	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : a) 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	28.00	Cum	6000.00	168000.00
14.00	Reinforced cement concrete work in beams, suspended floors, roof shaving slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	14.00	Cum	7000.00	98000.00
15.00	Centering and shuttering including strutting, propping etc. and removal of form for : (a) Foundations, footings, bases for columns etc. for mass concrete.	109.00	Sqm.	200.00	21800.00
16.00	b) Suspended floors, roofs, landings, balconies and access platform	85.00	Sqm.	250.00	21250.00
17.00	Centering and shuttering including strutting, propping etc. and removal of form for : a) Weather shade, Chajjas, corbels etc., including edges	21.00	Sqm.	300.00	6300.00
18.00	Providing, hoisting and fixing above plinth level up to floor five level precast reinforced cement concrete work in string courses, bands, copings, bed plates, anchor blocks, plain window sills and the like, including the cost of required centering, shuttering but , excluding cost of reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	10	Cum	10000.00	100000.00
19.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level . (a) Thermo-Mechanically Treated bars of grade Fe-500D or more	3504.00	Kg	85.00	297840.00

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20.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level a) Thermo-Mechanically Treated bars of grade Fe-500D or more.	2229.00	Kg	85.00	189465.00
21.00	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)	11.00	Cum	6000.00	66000.00
22.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in a) Cement mortar 1:6 (1 cement : 6 coarse sand)	37.00	Cum	6000.00	222000.00
23.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level : cement mortar 1:4 (1 cement : 4 coarse sand)	9.00	Sqm.	600.00	5400.00
24.00	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in a) cement mortar 1:4 (1 cement : 4 coarse sand)	33.00	Sqm.	600.00	19800.00
25.00	Extra for providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry.	9.00	Sqm.	200.00	1800.00
26.00	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. a) Granite stone slab colour black, Cherry/Ruby red b) Area of slab over 0.50 sqm	2.00	Sqm.	3000.00	6000.00
27.00	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	1.00	Each	400.00	400.00
28.00	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 plyveneering 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	4.00	Sqm.	3000.00	12000.00
29.00	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. a) Fixed to steel windows by welding	217.00	Kg	100.00	21700.00
30.00	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer (having brand logo with IS : 3564, embossed on the body, door weight upto 36 kg to 80 kg and door width from 701 mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	6.00	Each	1000.00	6000.00
31.00	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	6.00	Each	100.00	600.00
32.00	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete : 250x16 mm	7.00	Each	200.00	1400.00
33.00	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete : 150x10 mm each 64.30	8.00	Each	100.00	800.00
34.00	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete 125 mm	14.00	Each	100.00	1400.00
35.00	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. a) Single rubber stopper	7.00	Each	100.00	700.00
36.00	Providing and 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. a) 1.5 mm thick	21.00	Sqm.	1000.00	21000.00
37.00	Providing and fixing factory made Fiberglass Reinforced plastics (F.R.P.) chajja 4 mm thick of required colour, size and design made by Resin Transfer Moulding (RTM) Machine Technology, resulting in void free compact laminate in single piece, having smooth gradual slope curvature for easy drainage of water and duly reinforced by 2 nos vertically and 1 nos horizontally 50x2 mm thick M.S. flat with 12 mm in built hole for grouting on the existing wall along with the 50 mm flanges duly inserted and sealed in the wall complete in one single piece casted monolithically, including all necessary fittings. The FRP Chajja should be manufactured using unsaturated Polyester resin as per IS : 6746, duly reinforced with fibre glass chopped strand mat (CSM) as per IS : 11561 complete with protective Gel coat UV coating on Top for complete resistance from the extreme of temperature, weather & sunlight (Only plan area of chajja shall be measured for making payment).	7.00	Sqm.	450.00	3150.00
38.00	Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm hollow MS tube, placed along the walls, ceiling and floor in a grid pattern with spacing @ 60 cm centre to centre both ways (vertically & horizontally) or at required spacing near openings, with necessary welding at junctions and fixing the frame to wall/ ceiling/floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.	209.00	Kg.	120.00	25080.00
39.00	Providing and fixing in wall lining medium density fibre board IS : 14587:1998 marked, Pre-laminated one side decorative lamination and other side balancing lamination, with necessary fixing arrangement and screws etc. complete. a) 12 mm thick.	51.00	Sqm.	1000.00	51000.00
40.00	Providing and fixing in position collapsible steel shutters with vertical channels 20x10x2 mm and braced with flat iron diagonals 20x5 mm size, with top and bottom rail of T-iron 40x40x6 mm, with 40 mm dia steel pulleys, complete with bolts, nuts, locking arrangement, stoppers, handles, including applying a priming coat of approved steel primer.	4.00	Sqm.	6000.00	24000.00

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41.00	Providing and fixing pressed steel door frames conforming to IS 4351, manufactured from commercial mild steel sheet of 1.60 mm thickness, including hinges, jamb, lock jamb, head and if required angle threshold of mild steel angle of section 50x25 mm, or base ties of 1.60 mm pressed mild steel welded or rigidly fixed together by mechanical means, including M.S. pressed buff hinges 2.5 mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge. a) Profile C (if fixing with adjustable lugs with split end tail to each jamb)	6.00	Mtr.	1000.00	6000.00
42.00	Providing and fixing mild steel round holding down bolts with nuts, washer & plates complete	614.00	Kg	135.00	82890.00
43.00	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 stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	950.00	Kg	190.00	180500.00
44.00	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	2340.00	Kg	95.00	222300.00
45.00	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS 15622 of approved make in colours such as White, Ivory, Grey Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc. complete.	6.00	Sqm.	1000.00	6000.00
46.00	Providing and fixing 1st quality ceramic glazed 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 skirting, risers 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 @ 3.3 kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	10.00	sqm.	1000.00	10000.00
47.00	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS 15622, of approved brand & manufacturer, in all colours and shade, 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. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. a) Glazed Vitrified tiles Matt/Antiskid finish of size. i) Size of Tile 600 x 600 mm (Light gray (RAL 7004))	61.00	Sqm.	800.00	48800.00
48.00	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to IS 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/sqm including grouting the joint with white cement & matching pigment etc. complete. a) Size of Tile 600x600 mm	8.00	Sqm.	800.00	6400.00
49.00	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x 1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	1.00	Each	400.00	400.00
50.00	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. (i) Single socketed pipes. A) 110 mm diameter	14.00	Mtr.	250.00	3500.00
51.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 87.5° a) 110 mm bend	4.00	Each	400.00	1600.00
52.00	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	4.00	Each	200.00	800.00
53.00	Providing and fixing on wall face unplasticised - PVC moulded fittings/ accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. a) Shoe (Plain) i) 110 mm Shoe	4.00	Each	400.00	1600.00
54.00	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30 mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25 mm made of 0.30mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fixtures, 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 mm fixed to ceiling with 12.5 mm dia and 50mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester	19.00	Sqm.	1000.00	19000.00
55.00	12 mm cement plaster of mix a) 1:6 (1 cement: 6 fine sand)	179.00	Sqm.	200.00	35800.00
56.00	15 mm cement plaster on the rough side of single or half brick wall of mix : a) 1:6 (1 cement: 6 fine sand)	175.00	Sqm.	250.00	43750.00
57.00	6 mm cement plaster of mix : a) 1:3 (1 cement : 3 fine sand)	63.00	Sqm.	180.00	11340.00
58.00	Distemper with oil bound washable distemper of approved brand and manufacture to give an even shade : a) New work (two or more coats) over and including water hnnable priming coat with cement primer	86.00	Sqm.	100.00	8600.00

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					114.00	Sqm	100.00	11400.00
					104.00	Sqm	100.00	10400.00
59.00	Finishing walls with water proofing cement paint of required shade. a) New work (Two or more coats applied @ 3.84 kg/10 sqm)							
60.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : (a) Two or more coats on new work					Each	200.00	600.00
61.00	Providing and fixing 16 mm M.S. Fan clamps of standard shape and size in existing R.C.C. slab including cutting chase, anchoring clamps reinforcement bar, including cleaning, refilling, making good the chase with matching concrete, plastering and painting the exposed portion of the clamps complete.			3.00				
62.00	Cement concrete 1:2:4 (1 cement, 2 coarse sand, 4 graded stone aggregate 40 mm nominal size) in pavements, laid to required slope and camber in panels as required including consolidation, finishing and tamping complete.			228.00		Cum	4800.00	1099200.00
63.00	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS - 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required. a) W.C. pan with ISI marked white solid plastic seat and lid			1.00		Each	6000.00	6000.00
64.00	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required. White Vitreous a) China Flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap			1.00		Each	3000.00	3000.00
65.00	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13593 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required. a) Kitchen sink with drain board b) 510x1040 mm bowl depth 178 mm			1.00		Each	3000.00	3000.00
66.00	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.			1.00		Each	800.00	800.00
67.00	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. a) Flexible pipe b) 32 mm dia			2.00		Each	100.00	200.00
68.00	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden deals with C.P. brass screws and washers complete			1.00		Each	1000.00	1000.00
69.00	Providing and fixing toilet paper holder : a) C.P. Brass			1.00		Each	800.00	800.00
70.00	Providing and fixing soil, waste and vent pipes : a) 75 mm diameter b) Centrifugally cast (spun) iron socketed pipes as per IS - 3989			10.00		Mtr.	1000.00	10000.00
71.00	Providing and filling the joints with spun yarn, cement slurry and cement mortar 1:2 (1 cement : 2 fine sand) in S.C.I. / C.I. Pipes : a) 75 mm dia pipe			5.00		Each	100.00	500.00
72.00	Providing and fixing terminal guard : a) 75 mm b) Sand cast iron S&S as per IS - 3989			2.00		Each	300.00	600.00
73.00	Providing and fixing collar : a) 75 mm b) Sand cast iron S&S as per IS - 1729			2.00		Each	300.00	600.00
74.00	Providing and fixing M.S. stays and clamps for sand cast iron/centrifugally cast (spun) iron pipes of diameter : a) 75 mm			2.00		Each	400.00	800.00
75.00	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors : a) 100 mm inlet and 75 mm outlet b) Sand cast iron S&S as per IS - 3989			2.00		Each	2000.00	4000.00
76.00	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.			1.00		Each	200.00	200.00
77.00	Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.			2.00		Each	500.00	1000.00
78.00	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. a) 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms.			1.00		Each	500.00	500.00
79.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. a) Exposed on wall b) 25 mm nominal dia Pipes			10.00		Mtr.	500.00	5000.00
80.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. a) Exposed on wall b) 50 mm nominal dia Pipes			50.00		Mtr.	800.00	40000.00
81.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. a) 20 mm nominal dia Pipes			15.00		Mtr.	500.00	7500.00
82.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. a) External work b) 25 mm nominal dia Pipes			256.00		Mtr.	400.00	102400.00
83.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 20 mm nominal bore			2.00		Each	500.00	1000.00
84.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 25 mm nominal bore			1.00		Each	600.00	600.00
85.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) : 50 mm nominal bore			1.00		Each	1000.00	1000.00

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86.00	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete. 25 mm nominal bore	2.00	Each	800.00	1600.00
87.00	Providing and fixing upslandised PVC connection pipe with brass unions a) 45 cm length b) 15 mm nominal bore	2.00	Each	100.00	200.00
88.00	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, B - 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Rectangular tanks coverable separately. All works above plinth level upto floor V level	1000.00	Ltr.	10.00	10000.00
89.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS 8931 - 15 mm nominal bore	2.00	Each	800.00	1600.00
90.00	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms	1.00	Each	800.00	800.00
91.00	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS 8931 - 15mm nominal bore	4.00	Each	800.00	3200.00
92.00	Providing and fixing PTMT bib cock of approved quality and colour a) 15mm nominal bore, 88 mm long, weighing not less than 88 gms	10.00	Each	800.00	8000.00
93.00	Providing and fixing PTMT grating of approved quality and colour a) Circular type b) 125 mm nominal dia with 25 mm waste hole	2.00	Each	200.00	400.00
94.00	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete a) 100 mm diameter	60.00	Mtr.	300.00	18000.00
95.00	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design a) 100 mm diameter S.W. Pipe	60.00	Mtr.	400.00	24000.00
96.00	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with G.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70kg as per standard design a) 100x100 mm size P type b) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	Each	2000.00	4000.00
97.00	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) 100 mm dia. R.C.C. Pipe	474.00	Mtr.	330.00	156420.00
98.00	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	25.00	Mtr.	650.00	16250.00
99.00	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 20mm 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 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 (weight of cover 23 kg and weight of frame 15 kg) b) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2.00	Each	12000.00	24000.00
100.00	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design a) With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Each	20000.00	20000.00
101.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, milled and jointed mechanically wherever required including clear 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, paneling and dash fasteners to be paid for separately) a) For fixed portion i) Powder coated aluminium (minimum thickness of powder coating 50 micron)	134.00	Kg.	600.00	67000.00
102.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, milled and jointed mechanically wherever required including clear 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, paneling and dash fasteners to be paid for separately) a) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) b) Powder coated aluminium (minimum thickness of powder coating 50 micron)	245.00	Kg.	550.00	134750.00
103.00	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of Engineer-in-charge. Prelaminated particle board with decorative lamination on one side and balancing lamination on other side	22.00	Sqm.	1000.00	22000.00
104.00	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): With float glass panes of 4.0 mm thickness	22.00	Sqm.	800.00	17600.00

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105.00	Providing and laying APP (Atactic Polypropylene Polypropylene) modified pre-laminated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre mat consisting of a coat of bitumen primer for bitumen membrane @ 0.80 litre/sqm by the same membrane manufacturer of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc. and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under: Joint strength in longitudinal and transverse direction at 25°C as 350/500 N/5 cm. Tear strength in longitudinal and transverse direction at 25°C as 350/500 N/5 cm. Tear strength in longitudinal and transverse direction at 25°C as 350/500 N/5 cm. Cold flexibility shall be upto -2°C when tested in accordance with ASTM D - 6147. The laying of membrane shall be got done through the authorized application of the manufacturer of membrane. a) 3 mm thick.	72.00	Sqm	800.00	43200.00
106.00	Grading roof for water proofing treatment with a) Cement mortar 1:3 (1 cement : 3 coarse sand)	8.00	Cum	6000.00	48000.00
107.00	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/strata log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per direction of Engineer-in-charge, upto 90 metre depth below ground level a) All types of soil b) 300 mm dia	60.00	Mtr.	440.00	22800.00
108.00	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge, 150 mm nominal size dia	20.00	Mtr.	600.00	12000.00
109.00	Supplying, assembling, lowering and fixing in vertical position in borewell unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge a) 150 mm nominal size dia	30.00	Mtr.	700.00	21000.00
110.00	Gravel packing in tubewell construction in accordance with IS 4097, including providing gravel fine/medium/coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge	3.00	Cum	1350.00	4050.00
111.00	Development of tube well in accordance with IS : 2800 (part I) and IS : 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, for disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	10.00	Hours	760.00	7600.00
112.00	Providing and fixing Ball plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS 2800 (part I) a) 150 mm dia	1.00	Each	250.00	250.00
113.00	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS : 2800 (part I), including necessary bolts & nuts of required size complete, 150 mm clamp	1.00	Each	1350.00	1350.00

Total in Figures

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Lowest Amount Quoted BY: M/S M L BROTHER(5064965.00)

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AGM (C) - EL

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