

ANAND AGRICULTURAL UNIVERSITY, ANAND.

**CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF
QUARTERS AT AAU DHANDHUKA**

GENERAL SUMMARY SHEET

SR. NO.	SUMMARY		COST	REMARK
1	SUB ESTIMATE 1 - B1 TYPE STAFF QUARTERS - 2 NOS AT AAU DHANDHUKA (CIVIL ,PLUMBING AND SANITATION, ELECTRIFICATION WORKS)		2362185.71	A
2	SUB ESTIMATE 2 - D1 TYPE STAFF QUARTERS - 2 NOS AT AAU DHANDHUKA (CIVIL ,PLUMBING AND SANITATION, ELECTRIFICATION WORKS)		3936989.81	B
	TOTAL A + B		6299175.52	
	TOTAL SAY	Rs.	6299176.00	

NOTE:-

1. Labour will not be allowed to stay in campus except watchman & his family only.

ટેન્ડર ભરનાર ઠેકેદાર માટે ખાસ સુચના (Special Condition (GST))

૧. સદર શીડયુલ-બીમાં દર્શાવેલ દર સને-2024-25ના SOR મુજબ GST સિવાયના દરો લાગુ પાડવામાં આવેલ છે. જેથી ટેન્ડર ભરતી વખતે GST સિવાયના દરો ખાસ ધ્યાને લેવાના રહેશે.

૨. જ્યારે કોન્ટ્રાક્ટરને બીલનું ચુકવણું કરવામાં આવે ત્યારે બીલમાં અલગથી સરકારશ્રીના પ્રવર્તમાન દર મુજબ GSTનું ચુકવણું કરવામાં આવશે અને કોન્ટ્રાક્ટરે GST ભરપાઇ કર્યા બાદ GSTR-1 અને GSTR-3Bની નકલો કચેરીમાં રજુ કરવાની રહેશે અને GST ભરપાઇ કર્યાનું પ્રમાણપત્ર લેટર પેડ ઉપર આપવાનું રહેશે. સરકારશ્રીમાં GST જમા કરાવવાની તમામ જવાબદારી કોન્ટ્રાક્ટરશ્રીની રહેશે.

૩. GST નંબર ધરાવતા ન હોય તેવા કોન્ટ્રાક્ટરને અલગથી GSTનું ચુકવણું કરવામાં આવશે નહિ.

૪. સરકારશ્રીના ધારાધોરણ મુજબ ૨% GST-TDS એજન્સીના બીલમાંથી કપાત કરવામાં આવશે.

કાર્યપાલક ઇજનેર

I / We here by agree to carryout and complete the above mentioned work at _____ % (In Figure)

_____ percentage (In Words) above / bellow than the rates of items mentioned in

Schedule - B enclosed here with.

Executive Engineer
Anand Agricultural University,
Anand.

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
A	CIVIL WORKS				

1	Excavation for foundation Up To 1.5 m Depth including sorting out and stacking of useful materials and disposing of the excavated stuff for all lead and lift for Loose or soft soil including watering and consolidation with rammers..... etc. complete as directed by E.I.C.	101.90	Cum	117.08	11930.37
2	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. , complete as directed by E.I.C.	42.10	Cum	289.06	12169.51
3	Filling With Available excavated Soil excluding rock in plinth, floors etc. in layers of 20 cm. thickness including watering, ramming, consolidating and dressing and in proper level and slope...etc., complete as directed by E.I.C.	58.70	Cum	130.39	7653.95
4	Providing and Filling Sand in plinth , foundation and under floors including watering, ramming, consolidating and dressing in layers not exceeding 20 cms in thickness and in proper level and slope... etc., complete as by E.I.C.	16.80	Cum	460.19	7731.13
5	Providing and laying P.C.C. 1:4:8 (1 cement : 4 coarse sand : 8 hand broken stone aggregates 40 mm nominal size) and curing consolidation with rammers complete excluding cost of form work in Foundation and Plinth...etc., complete as directed by E.I.C.	28.70	Cum	2680.21	76921.93
6	Providing and laying and constructing Brick Work using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. In Foundation and Plinth in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints... etc. completed as directed by E.I.C.	62.20	Cum	4021.02	250107.57
7	Providing and laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing and shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Copings for any type of cross sectional area etc. completed as directed by E.I.C.	6.50	Cum	6053.40	39347.10
8	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Plinth Beams for any type of cross sectional area... etc., completed as directed by E.I.C.	3.20	Cum	6143.30	19658.56
9	Providing & laying ordinary Cement Concrete 1 : 2 : 4 (1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Plinth Slab for thickness 10 to 13 cms for ground floor... etc., complete as directed by E.I.C.	11.20	Cum	5680.80	63624.96

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
10	Providing and laying 75cm wide Plinth protection including excavating for 300mm deep, 100mm thick Cement Concrete 1:4:8 (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size) for foundation brickwork of 500mm ht. 200mm thick sand filling including 50mm thick 750mm wide IPS Cement Concrete 1:2:4 [1cement : 2coarse sand : 4hand broken stone aggregate] including curing, finishing with floating coat of neat cement slurry on top, sand face plaster and external cement paint on vertical side etc complete as per architectural detail drawing and as directed by E.I.C.	37.50	Sq.m	1324.50	49668.75
11	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement :1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Lintel for any cross sectional area...etc., completed as directed by E.I.C.	4.20	Cum	9123.90	38320.38
12	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement :1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for COLUMN for any cross sectional area...etc., complete as directed by E.I.C.	3.30	Cum	4592.80	15156.24
13	Providing and laying Cement Concrete 1:1½:3 (1 cement : 1½coarse sand :3 grade stone aggregates 20mm nominal size) in m-20 including finishing the exposed surface with CM 1:3 (1 cement : 3 fine sand) to give a smooth and even surface and cantering and formwork and curing for RCC work for Chhajja not exceeding 10 cm thickness for any level... etc. completed as directed by E.I.C .	0.80	Cum	6955.00	5564.00
14	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement :1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Beams on ground floor for any cross sectional area etc., completed as directed by E.I.C.	2.10	Cum	8068.70	16944.27
15	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement :1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Slab for thickness 13 to 15 cms for ground floor... etc., complete as directed by E.I.C.	18.30	Cum	6158.00	112691.40
16	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Steps and Landing for any cross sectional area... etc., completed as directed by E.I.C.	0.90	Cum	8616.00	7754.40

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
17	Providing & Laying twisted TMT Bar reinforcement for Ground Floor FE-500 D of TATA-Tisco, Nilkanth, Kamdhenu, NRE, National and Galant make for RCC work including cleaning, bending, binding and placing in position with 16 gauge annealed wires... etc. completed as per detailed structural drg & details directed by E.I.C.	5019.00	Kg	76.21	382521.08
18	Providing and laying Brick Work for ground floor using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints...etc. completed as directed by E.I.C.	42.60	Cum	4295.99	183009.37
19	Providing and laying Half Brick Work for Ground Floor using common burnt clay conventional building conventional bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:4 (1 cement : 4 coarse sand) with 2 nos. of 6mm mild steel round bars after every three coarse embedded in cement mortar in true line and level in super structure above plinth level including curing and necessary scaffolding, racking out joints... etc., completed as directed by E.I.C.	27.20	Sq.m	653.17	17766.14
20	Providing and applying 20mm thick Double Coat Mala Cement Plaster work on interior Walls and Ceiling Surfaces comprising of base coat of 12mm thick cement plaster in cement mortar (1Cement : 4 coarsesand) in rough finishing and 8mm thick top coat of cement mortar 1:2 (1Cement : 2Coarse sand) finished with trowel including scaffolding curing etc. complete as directed by E.I.C.	293.70	Sq.m	272.48	80026.73
21	Providing and applying 20mm thick Sand Faced Cement Plaster on External walls upto height 10 metres above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete as directed by E.I.C.	167.20	Sq.m	300.66	50269.82
22	Providing, laying and fixing 600mm x 600mm size and thickness 8mm to 10mm Vitrified Tile Flooring of Johnson/Varmora make laid on 20mm (average) base of CM 1:3 (1 cement : 3 course sand) and jointed with Epoxy Chemical Grout of approved colour having 4mm grooves created by spaces including curing and finishing with flush pointing of grout... etc., complete in true line and level/slope as per architectural detailed drawings and as directed by E.I.C.	41.30	Sq.m	1258.30	51967.79
23	Providing, laying and fixing 600mm x 600mm size and thickness 8mm to 10mm Vitrified Tile Skirting 75mm of Johnson/Varmora make laid on 10mm (average) base of CM 1:3 (1 cement : 3 course sand) and jointed with Epoxy Chemical Grout of approved colour having 4mm grooves created by spaces including curing and finishing with flush pointing of grout... etc., complete in true line and level/slope as per architectural detailed drawings and as directed by E.I.C.	2.80	Sq.m	1724.00	4827.20

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
24	Providing, laying and fixing 1200mm x 600mm size 20mm Thick Mirror Polished Black Granite Stone Slabs in Flooring of passages and Treads of steps and landings laid over 20mm (average) base of CM 1:6 (1 cement : 6 course sand) including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite including laid in true line and level, rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	15.30	Sq.m	1919.100	29362.23
25	Providing, laying and fixing 1200mm x 600mm size 20mm Thick Mirror Polished Black Granite Stone Slabs in Skirting and Risers of steps laid over 10mm (average) base of CM 1:3 (1 cement : 3 course sand) including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite including laid in true line and level, rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	2.70	Sq.m	2114.300	5708.61
26	Providing, laying and fixing 600mm x 600mm size 25 mm Thick Polished Kotah Stone Slabs in Flooring of Wash Area etc. laid over 20mm (average) base of CM 1:6 (1 cement : 6 course sand) and jointed with grey cement slurry including rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	7.20	Sq.m	992.66	7147.14
27	Providing, laying & fixing Coloured Glazed Tiles of size 600x450mm of Johnson/Varmora make in Toilet Dado laid over 10mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) laid over and finished with flush pointing in white cement slurry with pigment to match the shade and colour of the tiles in true line and level, curing... etc., complete as per detailed drawing, selection and as directed by E.I.C.	33.30	Sq.m	1054.67	35120.59
28	Providing, laying & fixing Coloured Glazed Tiles of size 300X300mm of Jhonson/Varmora make in Flooring of Toilets laid over 12mm (average) thick base of cement mortar 1:3 (1 cement : 3 course sand) laid over and finished with flush pointing in white cement slurry with pigment to match the shade and colour of the tiles in true line and level, curing... etc., complete as per detailed drawing and directed by E.I.C.	3.70	Sq.m	970.07	3589.28
29	Providing and fixing anodized, 3- track, fully glazed Aluminium Window of Banco make having outer frame section -101282/M, 3 track bottom section 102862/M, top/side track section 102861/M, interlock section - 202858/M, handle side vertical section - 202856/M, top and bottom of sliding section - 202857/M with 5 mm thick plain glass of Modi/Saint gobain make fixing with pressure patti, screws and alu.cleats etc.complete. as per detail drawing and as directed by the EIC.	9.40	Sq.m	3464.26	32564.04
30	Providing and fixing standared extruded of Alluminium Ventilators section of size 63mm x 38.10mm x 1.2mm @ Wt. 0.643 Kg/mt with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation etc. complete as directed by E.I.C.	1.40	Sq.m	1175.56	1645.78

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
31	Providing and fixing 30/35mm Thick Both Side Laminated Water Proof FLUSH DOOR SHUTTERS of Archid Ply/Nippon/greelam ply make including flush doors of first class hardwood and cross band block board core with plywood face panels, 6mm thick batten patti all around the shutter, Indian teakwood frames 12cm x 7cm size, 1mm thk. laminate of Sunmica make including Stainless steel fixtures and fastening(150mm size hinges,150mm size handle, 200mm size stopper, 300mm size aldrap-2nos) including providing and applying primer coat Asian/Berger make and two coats of oil painting of Asian/Berger make to the edges etc. complete as per detail drawings and as directed by E.I.C.	10.60	Sq.m	3313.69	35125.16
32	Distempering (three Coats) with oil bound PLASTIC EMULSION PAINT of ASIAN Paints of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brusing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth etc. complete as directed by E.I.C.	212.80	Sq.m	112.95	24035.40
33	Distempering (three coats) with oil bound PLASTIC EMULSION of ASIAN Paints of required shade on ceilings and roofing slopes to give an even shade including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from water dropping and other foreign matter and also including preparing the surface even and sand papered smooth as directed by E.I.C.	80.90	Sq.m	120.59	9756.05
34	Providing and applying two coats of Asian paints Ultima Apex brand on external wall surface of approved shade and colour after thoroughly brushing the surface free from water dropping, cement mortar and other foreign matter including one coat of Asian make Primer including preparing the surface even and smooth including necessary scaffolding... etc., complete as directed by E.I.C.	100.30	Sq.m	139.78	14020.34
35	Providing, Laying and fixing in true line and slope 20mm thk. single side Polished Jet Black Granite Stone as sills , jambs and frames in two layers of window/Door/Vent and other as per detail drawing including polishing both edges, all sides/edges shall be machine cut, making necessary cutting in wall/floors or where ever required, fixing the same with CM 1:3 including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite fitting shall be in true line and level etc. complete as directed by EIC and Architectural detailed drawings..etc. complete as directed by E.I.C.	21.20	Sq.m	1969.86	41761.10
36	Providing, fabricating and fixing MS Grill as per detail drawing at balcony, windows and openings in passages etc., at all heights including welding, grinding, fixing in position in true line and level including clear welding dots, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter including applying red oxide of Asian make, priming coat of Asian make and two coats of enamel of approved colour and shade of Asian make... etc., complete. by E.I.C.	102.20	Sq.m	107.80	11017.16

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
37	Providing and laying Kitchen Platform with 18 to 20mm Thick Single Side Mirror Polished Black Colour Granite Stone as Platform top and sides and Single side Polished Kotah stone as sandwiched vertical and horizontal supports as per detailed drawing with rounding & polishing elevation edge, including all sides/edges should be cut with machine including making necessary cutting in wall, floors or where ever required, fixing the same with CM 1:3 (1 cement : 3 fine sand) shall be in true line & level & making the adjoining surface as per original including curing etc. complete as directed by EIC.	3.90	sqmt	5037.80	19647.42
38	Providing, fabricating and fixing in walls M.S. C.R.C. Japan sheet Shutters of 16 gauge frame inside inserted as per requirement on wall, floor, ceiling all round and 18 gauge shutter for cupboard as per drawing and design with chromium plated fixtures & fastenings, locking arrangement including applying red oxide priming coat and painting 2 coats of ready mixed enamel paint of Asian/Berger quality brand and shade etc.. complete as directed by E.I.C.	9.00	Sq.m	4160.80	37447.20
39	Providing, laying & fixing true line & slope 25MM thick double side polished Kotah Stone for Cupboards and Store Racks with machine cut edge to all sides including polishing one long edge of elevation, making necessary cutting in wall, floors or where even required fixing the same with CM 1:3 (1 cement : 3 fine sand) & making the adjoining surface as per original including curing etc. complete as directed by EIC.	8.30	Sq.m	989.90	8216.17
40	Providing and fixing Jali Door including 40x40 m.s. square pipe as Frame and Shutter style, 25x25 m.s. square pipe as intermediate bracing, 16 gauge 15cm m.s. plate, m.s. hinges and latch of asian/jindal/tata make including fabricating, hoisting, fixing in position with angle cleats, holdfast etc in RCC or masonry etc. in true line level and plumb including complete welding, clear the welding dots with grinder machine and match to original including applying priming coat and painting the frame in two coats with enamel paint of Asian make of approved colour and shade including brushing and cleaning the surface of all dirt, dust and other foreign matter etc. complete as per detailed drawing and as directed by E.I.C.	3.00	Sq.m	1854.29	5562.86
41	Providing, Laying & Fixing 6mm thick white glazed tukdi of equal size pieces for China Mosaic type water proofing treatment, applying neat cement slurry with waterproofing compound including cleaning the surface opening the cracks in V grooves pattern and filling the cracks with silicon sealant in a good manner including brick bat bedding as directed to have proper slope of 75mm to 100mm or which ever is required over a layer of C.M 1:3 (1 Cement: 3 Sand) and filling the joints with C.M 1:3, including finishing the top surface with 15mm thick waterproof cement plaster in C.M1:3 using chemical water proofing compound as per manufacturers specification including vata of 100mm x 100mm size on inside periphery of the parapet in C.M. 1:1 and fixing the glazed tiles pieces on the plaster including filling the joints with white cement including drip mould at peripheri, acid wash, cost of labour, curing and testing for no leakage etc. completed as directed by the EIC.	11.50	Sq.m	931.80	10715.70
42	Providing throating of plaster Drip & Moulding to R.C.C. Chhajja, Roof Gutter etc. complete as directed by E.I.C.	45.30	Rmt	41.66	1887.31
43	Providing Cement Vata (10cm X 10cm size) quarter round in cement mortar 1 : 1 including neat cement finishing watering etc. complete as directed by E.I.C.	15.70	Rmt	23.68	371.85

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
44	Providing and applying general insecticide Pest Control treatment to floors , doors, cupboards, including labours, materials etc. complete as directed by EIC.	111.80	Sq.m	89.28	9981.95
	FIRST FLOOR				
45	Providing and laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing and shuttering in true line and level etc. but excluding cost of reinforcement in RCC work and lead and lift for Parapet Wall Caps for any cross sectional area...etc. complete as per detailed structural drawing and as directed by E.I.C.	1.10	Cum	6183.60	6801.96
46	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Slab for thickness 13 to 15 cms... etc., complete as directed by E.I.C.	1.40	Cum	6137.60	8592.64
47	Providing & Laying twisted TMT Bar reinforcement (as per is code Fe-500/500D) of TATA-TISCO, KAMDHENU, NILKANTH, NATIONAL, NRE, GALET, AMBIKA, Vinayak, Friends make for RCC work including cleaning, bending, binding and placing in position with 16 gauge annealed wires... etc. completed as per detailed structural drg & details directed by E.I.C.	82.50	Kg	77.21	6370.20
48	Providing and laying Brick Work using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints...etc. completed as directed by E.I.C.	14.40	Cum	4336.18	62441.03
49	Providing 20mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12mm thick cement plaster in cement mortar (1Cement : 4 coarsesand) in rough finishing and 8mm thick top coat of cement mortar 1:2 (1Cement : 2Coarse sand) finished with trowel including scaffolding curing etc. complete as directed by E.I.C.	22.40	Sq.m	299.20	6702.13
50	Providing & applying 15mm Thick Cement Plaster in single coat on fair side of brick or concrete wall for interior/exterior plastering, finished even and smooth in CM 1:4 (1 Cement : 4 Sand) including finishing with floating coat of neat cement slurry including providing and fixing 100 to 150 mm wide stripe of chicken net at horizontal and vertical joints of R.C.C. and brick masonry including necessary curing, scaffolding in true line and level... etc., complete as directed by E.I.C.	49.20	Sq.m	233.51	11488.79
51	Distempering (THREE COATS) with oil bound PLASTIC EMULSION PAINT of ASIAN Paints of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth etc. complete as directed by E.I.C.	22.40	Sq.m	112.95	2530.04

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
52	Providing and applying two coats of Asian paints Ultima Apex brand on external wall surface of approved shade and colour after thoroughly brushing the surface free from water dropping, cement mortar and other foreign matter including one coat of Asian make Primer including preparing the surface even and smooth including necessary scaffolding... etc., complete as directed by E.I.C.	89.50	Sq.m	139.78	12510.67
A	TOTAL FOR CIVIL WORKS			RS.	1967753.46
B	PLUMBING & SANITATION ITEMS				
53	Providing and fixing Brass Ball cock (PVC HDP black) 40mm dia. of approved quality with necessary fittings including fixing in pipeline and testing the same etc... complete as directed by E.I.C.	2.00	Nos.	1276.50	2553.00
54	Providing and Fixing White PVC Water Tank of required Capacity of Sintex Pre Antimicrobial White colour including cost of all brass fixtures & fittings required as per given detail for inlet and outlet connections, air vent, cover, testing etc., complete as directed by E.I.C.	2000.00	Litre	17.20	34400.00
55	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 40mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete as directed by E.I.C.	10.00	Rmt.	442.04	4420.37
56	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 25mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete as directed by E.I.C.	10.00	Rmt.	249.72	2497.23
57	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 15mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete as directed by E.I.C.	10.00	Rmt.	166.86	1668.62
58	Providing and fixing 40mm dia Brass Forged Ball Valve of Zoloto/DRP Brand ISI quality fixing in pipeline and testing the same & make it leak proof, fix in true level with required nipple / clamp ... etc., complete as directed by E.I.C.	2.00	Nos.	2961.80	5923.60
59	Providing and fixing 25mm dia Brass Forged Ball Valve of Zoloto/DRP Brand ISI quality fixing in pipeline and testing the same & make it leak proof, fix in true level with required nipple / clamp ... etc., complete as directed by E.I.C.	2.00	Nos.	1311.30	2622.60
60	Providing and fixing Flush cock of Jaquar make Range Clarion code CQT-CHR-24081 with wall flange 25mm ceramic disc cartridge with plain knob including fixing in pipe line and necessary testing... etc., Complete as directed by E.I.C.	2.00	Nos.	3310.30	6620.60
61	Providing and fixing Bib Cock of Jaquar make Range Clarion code CQT-CHR-23047 with wall flange including fixing in pipeline and testing the same... etc., complete., as directed by E.I.C.	6.00	Nos.	1800.30	10801.80
62	Providing and fixing 100 mm dia. Over head shower rose of Jaquar make code OHS-CHR-1989 Round shape Single Flow (ABS Body Chrome plated with Grey face Plate) with Rubit Cleaning System fixing in pipeline with CP. Nipple/shower bend & flange and testing & make it leak proof & flush to wall/ceiling surface etc complete and as directed by E.I.C.	2.00	Nos.	2119.70	4239.40

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
63	Providing and fixing Wall hung EWC of CERA make Model No S1043158 Carat with Carina Seat Cover Snow White Colour size 500x360x350mm with concealed P trap including jet spray & P.V.C. pipe connected including Angular Stop Cock of Jaquar make COP-CHR-057PM including jointing the trap with soil pipe in cement mortar 1:1(1 Cement: 1 Fine sand) and testing the same etc. complete as directed by E.I.C.	2.00	Nos.	8081.00	16162.00
64	Providing and fixing Wash Basin Cera make snow white colour Carpio -S2040213 wash basin with half pedestal - S2090142 Category no S2040213H size 500x410x165 fixing in true line and level with CI or MS brackets painted with same colour as basin including cost of providing and fixing CP brass waste coupling of 40 mm dia., PVC waste pipe, 15mm dia. C.P. Pillar cock Jaquar make code CQT-CHR-23011 capstan head C.P. screwed down high pressure with screw shank and back nuts & rubber plugs, 15mm dia.C.P. Stop cock Jaquar make code COP-CHR-057PM 15mm P.V.C. connection pipe etc. complete as directed by E.I.C.	2.00	Nos.	6236.90	12473.80
65	Providing and fixing 600 mm X 450 mm, 6mm thick Bevelled edge Mirror of Saint Gobain / Modi guard / Asahi make mounted on 19 mm plywood sheet and fixed to wooden plugs with CP brass screws and washers, in true line & level... etc. complete as	2.00	Nos.	833.73	1667.47
66	Providing and fixing Square 304-SS Towel rail of size 600mm complete fixed on wall or Dado tiles with wooden plugs with CP brass screws etc. complete as directed by EIC.	2.00	Nos.	603.19	1206.38
67	Providing and fixing PVC Nahni Trap of Supreme make of 110mm dia inlet and 75mm dia. outlet of self cleaning design including fixing PVC reducer of 110 mm dia to 75 mm dia., S.S. grating Jali of 150x150mm size and jointing with using adhesive solvent cement including cost of cutting and making good the walls and floors as per original etc. complete as directed by EIC.	6.00	Nos.	551.70	3310.20
68	Providing, laying and jointing in level and slopes 110 mm internal dia. SWR pipes of Finolex/Prince/Dutron/Astral make for Drainage line in floors including cost of necessary fittings such as bends, tees, clamps, rubber packing rings etc., jointing with adhesive solvent cement and making leak proof, testing the line and cutting and making floors and walls as per original etc. complete as directed by EIC.	10.00	Rmt.	463.80	4638.00
69	Providing, laying and jointing in level and slopes 75 mm internal dia. SWR pipes of Finolex/Prince/Dutron/Astral make for Drainage line in floors including cost of necessary fittings such as bends, tees, clamps, rubber packing rings etc., jointing with adhesive solvent cement and making leak proof, testing the line and cutting and making floors and walls as per original etc. complete as directed by EIC.	10.00	Rmt.	321.00	3210.00
70	Providing and fixing SW Gully trap of 150mm x 100mm size - P or R type with CI grating, brick masonry chamber and water tight CI cover with frame of 300 mm X 300 mm size (inside) with standard weight and Square mouth traps, including making in true line and level / slope, required excavation / refilling of excavated soil, brick work, plastering and curing etc. complete as directed by EIC.	2.00	Nos.	1246.92	2493.83

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 1 - B1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
71	Constructing Brick Masonry Chamber for underground CI inspection chamber with Inside dimension 455 mm X 610 mm and 600 To 1800 mm deep for single pipe line including bricks having crushing strength not less then 35 kg/sqcm in CM 1:5, C.I cover with frame (light duty) 455mm X 610mm internal dimension, total wt. of cover with frame to be not less than 38 kg. (wt. of cover 23 kg and wt. of frame 15 kg), RCC top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm size), foundation concrete 1:5:10, inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement slurry on walls and bed concrete... etc., complete as directed by EIC.	2.00	Nos.	2932.93	5865.86
72	Providing and fixing 110 mm dia., PVC Cowl Vent of Supreme make with working pressure 4 kg/sq.cm including jointing with adhesive solvent cement including fixing the same in true line and level... etc., complete as directed by EIC.	2.00	Nos.	137.90	275.80
73	Providing, lowering, laying and jointing in true line and level / slope 110 mm dia. rigid PVC pipes of Finolex/Prince/Dutron/Astral make of working pressure 4 kg/sq.cm for Rainwater Pipeline fitted concealed in walls including all necessary fittings such as bends, shoe bends etc., fixing the same with PVC clamps at 2 meter c/c, jointing with adhesive solvent cement, the cost of all materials, fixing air and water tight, testing the line including cutting and making floors and walls as per original etc. complete as directed by EIC.	12.00	Rmt.	338.20	4058.40
74	Providing and fixing Kitchen Platform Sink of Nirali make S.S. grade IS-304, Model Grace Deluxe Medium size 445x365x200mm Glossy finish in sandwiched kotah stones including cutting holes in walls / stones and making good the same including Sink Cock with Pipe Swinging Spout Continental Range code-COP-CHR-347PM of Jaquar make including Stop cock of Jaquar make code COP-CHR-057PM including cost of providing and fixing CP brass waist coupling of 40mm dia. and PVC connection pipe of 40 mm dia etc. complete as directed by EIC.	2.00	Nos.	10895.50	21791.00
75	Providing and constructing double wall SOAK WELL of 2.50m internal dia. & 5.00m depth internal clear dimension including the cost of excavation, foundation PCC 1:4:8, honey combed masonry & brick 3.00m height in C.M. 1:6 (1 cement : 6 coarse sand), casting R.C.C. 1:2:4 (1 cement : 2 sand, 4 graded sone aggregate 20mm nominal size) top slab 120mm thick with RCC Manhole cover 60cm x 45cm size and 75mm dia. C.I. pipe 1.80m long with 75mm dia cowl vent and filling between the wall including providing vata in C.M. 1:3 (1 cement : 3 sand), plastering up to top & outer wall up to 300mm deep from G.L., curing including cost of reinforcement etc. complete as per detail drawing & as directed by E.I.C	1.00	Nos.	78544.30	78544.30
B	TOTAL FOR PLUMBING & SANITATION ITEMS			RS.	231444.26
	TOTAL BUILDING COST		RS.		2199197.71

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS
AT AAU DHANDHUKA
SCHEDULE B - ELECTRICAL WORKS
SUB ESTIMATE 1 - TYPE B1

Schedule B - Electrification Work - Quarter Type B1						
Sr No.		Item Description	QTY	Unit	Rate SOR (MATERIAL)	Amount
		POINT WIRING				
1		Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete.Cat III	16.00	Pt	481.00	7696.00
2		Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat III	3.00	Pt	668.00	2004.00
4		Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.				
		[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	3.00	Ea	471.00	1413.00
5		[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	2.00	Ea	689.00	1378.00
6		[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board.				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat III	2.00	Ea	738.00	1476.00
7		Point wiring for on board looped PLUG with tissino type single pole ISI marked Switch and Socket erected with necessary connections erected on wooden /Metal/ PVC Box covered with 3 mm thick PC(Polycarbonate) /Acrylic sheet for open / concealed wiring for following size. [A] For 6 Amp.	5.00	Ea	66.00	330.00

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS

AT AAU DHANDHUKA

SCHEDULE B - ELECTRICAL WORKS

SUB ESTIMATE 1 - TYPE B1

8		Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	20.00	Mtr	33.00	660.00
9		Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size] (A) with medium class Rigid PVC pipe and accessories				
10		(b) 2 wire 2.5 sq. mm	220.00	Mtr	82.00	18040.00
11		providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories				
		(a) 2 wire 4 sq. mm	80.00	Mtr	111.00	8880.00
		SUB TOTAL				41877.00
		LAMPS AND FITTINGS				
13		Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection,Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder				
		(iii) 10 to 15 watts Cat-III	7.00	Nos	187.00	1309.00
16		Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)				
		(A) Tube Light with integral driver(v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet Cat III	4.00	Nos.	530.00	2120.00
		SUB TOTAL				3429.00
25		providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark CAT III	12.00	Ea	111.00	1332.00

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS

AT AAU DHANDHUKA

SCHEDULE B - ELECTRICAL WORKS

SUB ESTIMATE 1 - TYPE B1

26		Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for				
		(B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (ii)6 way	1.00	Ea	1893.00	1893.00
20		The Above all items of MCB, DB the cost of erection on New angle iron frame add following.	1.00	Ea		
		[B] above single phase 8 way and all three phase DBs.			246.00	0.00
21		providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed				
		(ii)25 Amps.DP Cat III	3.00	Ea	1950.00	5850.00
		Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (b)40 Amp.	1.00	Ea	662.00	662.00
		SUB TOTAL				9737.00
		CABLES				
22		Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.	30.00	Mtr	505.00	15150.00
		(C) 4 core 6 Sq. mm				
		SUB TOTAL				15150.00
		FANS				
40		Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos.Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM,230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection , 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[Make shall be approved by Engineer in Charge] (B) 1200 mm Sweep (48")	3.00	Ea	2857.00	8571.00
41		Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	3.00	Mtr	107.00	321.00
42		Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	3.00	Ea.	107.00	321.00

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS

AT AAU DHANDHUKA

SCHEDULE B - ELECTRICAL WORKS

SUB ESTIMATE 1 - TYPE B1

43		Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	3.00	Ea	18.00	54.00
44		Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM				0.00
		[A] 305 mm dia 900 RPM cat III	1.00	Ea	2034.00	2034.00
		SUB TOTAL				11301.00
		TOTAL FOR SINGLE B1 QUARTER			Rs.	81494.00
		TOTAL FOR TWO NOS B1 QUARTERS			Rs.	162988.00

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
A CIVIL WORKS					
1	Excavation for foundation Up To 1.5 m Depth including sorting out and stacking of useful materials and disposing of the excavated stuff for all lead and lift for Loose or soft soil including watering and consolidation with rammers..... etc. complete as directed by E.I.C.	146.20	Cum	117.08	17116.98
2	Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. , complete as directed by E.I.C.	59.70	Cum	289.06	17257.00
3	Filling With Available excavated Soil excluding rock in plinth, floors etc. in layers of 20 cm. thickness including watering, ramming, consolidating and dressing and in proper level and slope...etc., complete as directed by E.I.C.	98.80	Cum	130.39	12882.63
4	Providing and Filling Sand in plinth , foundation and under floors including watering, ramming, consolidating and dressing in layers not exceeding 20 cms in thickness and in proper level and slope... etc., complete as by E.I.C.	28.20	Cum	460.19	12977.25
5	Providing and laying P.C.C. 1:4:8 (1 cement : 4 coarse sand : 8 hand broken stone aggregates 40 mm nominal size) and curing consolidation with rammers complete excluding cost of form work in Foundation and Plinth...etc.. complete as directed by E.I.C.	43.80	Cum	2680.21	117393.05
6	Providing and laying and constructing Brick Work using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. In Foundation and Plinth in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints... etc. completed as directed by E.I.C.	88.80	Cum	4021.02	357066.76
7	Providing and laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing and shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Copings for any type of cross sectional area etc. completed as directed by E.I.C.	10.00	Cum	6053.40	60534.00
8	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Plinth Beams for any type of cross sectional area... etc., completed as directed by E.I.C.	5.10	Cum	6143.30	31330.83

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
9	Providing & laying ordinary Cement Concrete 1 : 2 : 4 (1 Cement : 2 Coarse sand : 4 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Plinth Slab for thickness 10 to 13 cms for ground floor... etc., complete as directed by E.I.C.	18.80	Cum	5680.80	106799.04
10	Providing and laying 75cm wide Plinth protection including excavating for 300mm deep, 100mm thick Cement Concrete 1:4:8 (1 cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size) for foundation brickwork of 500mm ht. 200mm thick sand filling including 50mm thick 750mm wide IPS Cement Concrete 1:2:4 [1cement : 2coarse sand : 4hand broken stone aggregate] including curing, finishing with floating coat of neat cement slurry on top, sand face plaster and external cement paint on vertical side etc complete as per architectural detail drawing and as directed by E.I.C.	53.30	Sq.m	1324.50	70595.85
11	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Lintel for any cross sectional area...etc., completed as directed by E.I.C.	5.60	Cum	9123.90	51093.84
12	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for COLUMN for any cross sectional area...etc., complete as directed by E.I.C.	5.20	Cum	4592.80	23882.56
13	Providing and laying Cement Concrete 1:1½:3 (1 cement : 1½coarse sand : 3 grade stone aggregates 20mm nominal size) in m-20 including finishing the exposed surface with CM 1:3 (1 cement : 3 fine sand) to give a smooth and even surface and cantering and formwork and curing for RCC work for Chhajja not exceeding 10 cm thickness for any level... etc. completed as directed by E.I.C .	1.10	Cum	6955.00	7650.50
14	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Beams on ground floor for any cross sectional area etc., completed as directed by E.I.C.	2.70	Cum	8068.70	21785.49

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
15	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Slab for thickness 13 to 15 cms for ground floor... etc., complete as directed by E.I.C.	29.70	Cum	6158.00	182892.60
16	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Steps and Landing for any cross sectional area... etc., completed as directed by E.I.C.	0.90	Cum	8616.00	7754.40
17	Providing & Laying twisted TMT Bar reinforcement for Ground Floor FE-500 D of TATA-Tisco, Nilkanth, Kamdhenu, NRE, National and Galant make for RCC work including cleaning, bending, binding and placing in position with 16 gauge annealed wires... etc. completed as per detailed structural drg & details directed by E.I.C.	7807.50	Kg	76.21	595045.49
18	Providing and laying Brick Work for ground floor using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints...etc. completed as directed by E.I.C.	63.90	Cum	4295.99	274514.05
19	Providing and laying Half Brick Work for Ground Floor using common burnt clay conventional building conventional bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:4 (1 cement : 4 coarse sand) with 2 nos. of 6mm mild steel round bars after every three coarse embedded in cement mortar in true line and level in super structure above plinth level including curing and necessary scaffolding, racking out joints... etc., completed as directed by E.I.C.	30.20	Sq.m	653.17	19725.64
20	Providing and applying 20mm thick Double Coat Mala Cement Plaster work on interior Walls and Ceiling Surfaces comprising of base coat of 12mm thick cement plaster in cement mortar (1Cement : 4 coarsesand) in rough finishing and 8mm thick top coat of cement mortar 1:2 (1Cement : 2Coarse sand) finished with trovel including scaffolding curing etc. complete as directed by E.I.C.	547.40	Sq.m	272.48	149154.35

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
21	Providing & applying 20mm Thick Sand Faced Cement Plaster Using Wooden Gutki on wall up to full height from ground level consisting of 12mm thick backing coat of CM 1:3 (1 cement : 3 sand) and 8mm thick finishing coat of CM 1:1 (1 cement : 1 sand) including curing, necessary scaffolding in true line and level...etc. completed as directed by E.I.C.	278.40	Sq.m	300.66	83702.85
22	Providing, laying and fixing 600mm x 600mm size and thickness 8mm to 10mm Vitrified Tile Flooring of Johnson/Varmora make laid on 20mm (average) base of CM 1:3 (1 cement : 3 course sand) and jointed with Epoxy Chemical Grout of approved colour having 4mm grooves created by spaces including curing and finishing with flush pointing of grout... etc., complete in true line and level/slope as per architectural detailed drawings and as directed by E.I.C.	99.80	Sq.m	1258.30	125578.34
23	Providing, laying and fixing 600mm x 600mm size and thickness 8mm to 10mm Vitrified Tile Skirting 75mm of Johnson/Varmora make laid on 10mm (average) base of CM 1:3 (1 cement : 3 course sand) and jointed with Epoxy Chemical Grout of approved colour having 4mm grooves created by spaces including curing and finishing with flush pointing of grout... etc., complete in true line and level/slope as per architectural detailed drawings and as directed by E.I.C.	5.50	Sq.m	1724.00	9482.00
24	Providing, laying and fixing 1200mm x 600mm size 20mm Thick Mirror Polished Black Granite Stone Slabs in Flooring of passages and Treads of steps and landings laid over 20mm (average) base of CM 1:6 (1 cement : 6 course sand) including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite including laid in true line and level, rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	21.40	Sq.m	1919.10	41068.74
25	Providing, laying and fixing 1200mm x 600mm size 20mm Thick Mirror Polished Black Granite Stone Slabs in Skirting and Risers of steps laid over 10mm (average) base of CM 1:3 (1 cement : 3 course sand) including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite including laid in true line and level, rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	3.70	Sq.m	2114.300	7822.91

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
26	Providing, laying and fixing 600mm x 600mm size 25 mm Thick Polished Kotah Stone Slabs in Flooring of Wash Area etc. laid over 20mm (average) base of CM 1:6 (1 cement : 6 course sand) and jointed with grey cement slurry including rubbing, curing and polishing... etc., complete in true line and level/slope and as directed by E.I.C.	8.60	Sq.m	992.66	8536.86
27	Providing, laying & fixing Coloured Glazed Tiles of size 600x450mm of Johnson/Varmora make in Toilet Dado laid over 10mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) laid over and finished with flush pointing in white cement slurry with pigment to match the shade and colour of the tiles in true line and level, curing... etc., complete as per detailed drawing, selection and as directed by E.I.C.	71.80	Sq.m	1054.67	75725.47
28	Providing, laying & fixing Coloured Glazed Tiles of size 300X300mm of Jhonson/Varmora make in Flooring of Toilets laid over 12mm (average) thick base of cement mortar 1:3 (1 cement : 3 coarse sand) laid over and finished with flush pointing in white cement slurry with pigment to match the shade and colour of the tiles in true line and level, curing... etc., complete as per detailed drawing and directed by E.I.C.	11.20	Sq.m	970.07	10864.84
29	Providing and fixing anodized, 3- track, fully glazed Aluminium Window of Banco make having outer frame section -101282/M, 3 track bottom section 102862/M, top/side track section 102861/M, interlock section - 202858/M, handle side vertical section - 202856/M, top and bottom of sliding section - 202857/M with 5 mm thick plain glass of Modi/Saint gobain make fixing with pressure patti, screws and alu.cleats etc.complete. as per detail drawing and as directed by the EIC.	20.40	Sq.m	3464.26	70670.90
30	Providing and fixing standared extruded of Alluminium Ventilators section of size 63mm x 38.10mm x 1.2mm @ Wt. 0.643 Kg/mt with colour anodized alluminium frame for ventilation with 5 mm thick frosted glass as details etc complete for Ventilation etc. complete as directed by E.I.C.	2.20	Sq.m	1175.56	2586.23
31	Providing and fixing 30/35mm Thick Both Side Laminated Water Proof FLUSH DOOR SHUTTERS of Archid Ply/Nippon/greelam ply make including flush doors of first class hardwood and cross band block board core with plywood face panels, 6mm thick batten patti all around the shutter, Indian teakwood frames 12cm x 7cm size, 1mm thk. laminate of Sunmica make including Stainless steel fixtures and fastening(150mm size hinges,150mm size handle, 200mm size stopper, 300mm size aldrap-2nos) including providing and applying primer coat Asian/Berger make and two coats of oil painting of Asian/Berger make to the edges etc. complete as per detail drawings and as directed by E.I.C.	20.70	Sq.m	3313.69	68593.48

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
32	Distempering (three Coats) with oil bound PLASTIC EMULSION PAINT of ASIAN Paints of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth etc. complete as directed by E.I.C.	457.40	Sq.m	112.95	51662.55
33	Distempering (three coats) with oil bound PLASTIC EMULSION of ASIAN Paints of required shade on ceilings and roofing slopes to give an even shade including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from water dropping and other foreign matter and also including preparing the surface even and sand papered smooth as directed by E.I.C.	173.60	Sq.m	120.59	20935.12
34	Providing and applying two coats of Asian paints Ultima Apex brand on external wall surface of approved shade and colour after thoroughly brushing the surface free from water dropping, cement mortar and other foreign matter including one coat of Asian make Primer including preparing the surface even and smooth including necessary scaffolding... etc., complete as directed by E.I.C.	236.60	Sq.m	139.78	33072.89
35	Providing, Laying and fixing in true line and slope 20mm thk. single side Polished Jet Black Granite Stone as sills , jambs and frames in two layers of window/Door/Vent and other as per detail drawing including polishing both edges, all sides/edges shall be machine cut, making necessary cutting in wall/floors or where ever required, fixing the same with CM 1:3 including finished with flush pointing with cement slurry with pigments to match the shade and colour of granite fitting shall be in true line and level etc. complete as directed by EIC and Architectural detailed drawings..etc. complete as directed by E.I.C.	43.20	Sq.m	1969.86	85098.10
36	Providing, fabricating and fixing MS Grill as per detail drawing at balcony, windows and openings in passages etc., at all heights including welding, grinding, fixing in position in true line and level including clear welding dots, preparing the surface by thoroughly cleaning oil, grease, dirt and other foreign matter including applying red oxide of Asian make, priming coat of Asian make and two coats of enamel of approved colour and shade of Asian make... etc., complete. by E.I.C.	355.40	kg	107.80	38312.12

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 2 - D1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
37	Providing and laying Kitchen Platform with 18 to 20mm Thick Single Side Mirror Polished Black Colour Granite Stone as Platform top and sides and Single side Polished Kotah stone as sandwiched vertical and horizontal supports as per detailed drawing with rounding & polishing elevation edge, including all sides/edges should be cut with machine including making necessary cutting in wall, floors or where ever required, fixing the same with CM 1:3 (1 cement : 3 fine sand) shall be in true line & level & making the adjoining surface as per original including curing etc. complete as directed by EIC.	7.40	sqmt	5037.80	37279.72
38	Providing, fabricating and fixing in walls M.S. C.R.C. Japan sheet Shutters of 16 gauge frame inside inserted as per requirement on wall, floor, ceiling all round and 18 gauge shutter for cupboard as per drawing and design with chromium plated fixtures & fastenings, locking arrangement including applying red oxide priming coat and painting 2 coats of ready mixed enamel paint of Asian/Berger quality brand and shade etc.. complete as directed by E.I.C.	21.80	sqmt	4160.80	90705.44
39	Providing, laying & fixing true line & slope 25MM thick double side polished Kotah Stone for Cupboards and Store Racks with machine cut edge to all sides including polishing one long edge of elevation, making necessary cutting in wall, floors or where even required fixing the same with CM 1:3 (1 cement : 3 fine sand) & making the adjoining surface as per original including curing etc. complete as directed by EIC.	18.10	sqmt	989.90	17917.19
40	Providing and fixing Jali Door including 40x40 m.s. square pipe as Frame and Shutter style, 25x25 m.s. square pipe as intermediate bracing, 16 gauge 15cm m.s. plate, m.s. hinges and latch of asian/jindal/tata make including fabricating, hoisting, fixing in position with angle cleats, holdfast etc in RCC or masonry etc. in true line level and plumb including complete welding, clear the welding dots with grinder machine and match to original including applying priming coat and painting the frame in two coats with enamel paint of Asian make of approved colour and shade including brushing and cleaning the surface of all dirt, dust and other foreign matter etc. complete as per detailed drawing and as directed by E.I.C.	5.00	Sq.m	1854.29	9271.43

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
41	Providing, Laying & Fixing 6mm thick white glazed tukdi of equal size pieces for China Mosaic type water proofing treatment, applying neat cement slurry with waterproofing compound including cleaning the surface opening the cracks in V grooves pattern and filling the cracks with silicon sealant in a good manner including brick bat bedding as directed to have proper slope of 75mm to 100mm or which ever is required over a layer of C.M 1:3 (1 Cement: 3 Sand) and filling the joints with C.M 1:3, including finishing the top surface with 15mm thick waterproof cement plaster in C.M1:3 using chemical water proofing compound as per manufacturers specification including vata of 100mm x 100mm size on inside periphery of the parapet in C.M. 1:1 and fixing the glazed tiles pieces on the plaster including filling the joints with white cement including drip mould at peripheri, acid wash, cost of labour, curing and testing for no leakage etc. completed as directed by the EIC.	181.60	Sq.m	931.800	169214.88
42	Providing throating of plaster Drip & Moulding to R.C.C. Chhajja, Roof Gutter etc. complete as directed by E.I.C.	47.40	Rmt	41.66	1974.80
43	Providing Cement Vata (10cm X 10cm size) quarter round in cement mortar 1 : 1 including neat cement finishing watering etc. complete as directed by E.I.C.	19.00	Rmt	23.68	450.01
44	Providing and applying general insecticide Pest Control treatment to floors , doors, cupboards, including labours, materials etc. complete as directed by EIC.	188.30	Sq.m	89.28	16812.18

FIRST FLOOR

45	Providing and laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing and shuttering in true line and level etc. but excluding cost of reinforcement in RCC work and lead and lift for Parapet Wall Caps for any cross sectional area...etc. complete as per detailed structural drawing and as directed by E.I.C.	1.60	Cum	6183.60	9893.76
46	Providing & laying ordinary Cement Concrete 1 : 1½ : 3 (1 Cement : 1½ Coarse sand : 3 stone aggregate 20mm nominal size kapchi) IN M-20 including the cost of necessary formwork, compacting with vibrator, curing & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Slab for thickness 13 to 15 cms... etc., complete as directed by E.I.C.	1.40	Cum	6137.60	8592.64

CONSTRUCTION OF B1 TYPE - 2 NOS AND D1 TYPE - 2 NOS STAFF QUARTERS AT AAU DHANDHUKA

SCHEDULE B -

SUB ESTIMATE 2 - D1 TYPE

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
47	Providing & Laying twisted TMT Bar reinforcement (as per is code Fe-500/500D) of TATA-TISCO, KAMDHENU, NILKANTH, NATIONAL, NRE, GALET, AMBIKA, Vinayak, Friends make for RCC work including cleaning, bending, binding and placing in position with 16 gauge annealed wires... etc. completed as per detailed structural drg & details directed by E.I.C.	260.00	Kg	77.21	20075.77
48	Providing and laying Brick Work using common burnt clay conventional building bricks having crushing strength not less than 35 Kg/Sq.cm. in cement mortar 1:6 (1 cement : 6 fine sand) in true line and level including curing, scaffolding, racking out the joints...etc. completed as directed by E.I.C.	18.30	Cum	4336.18	79352.14
49	Providing 20mm thick double coat mala cement plaster on interior brick / concrete work for plastering comprising of base coat of 12mm thick cement plaster in cement mortar (1Cement : 4 coarsesand) in rough finishing and 8mm thick top coat of cement mortar 1:2 (1Cement : 2Coarse sand) finished with trowel including scaffolding curing etc. complete as directed by E.I.C.	22.40	Sq.m	299.20	6702.13
50	Providing & applying 15mm Thick Cement Plaster in single coat on fair side of brick or concrete wall for interior/exterior plastering, finished even and smooth in CM 1:4 (1 Cement : 4 Sand) including finishing with floating coat of neat cement slurry including providing and fixing 100 to 150 mm wide stripe of chicken net at horizontal and vertical joints of R.C.C. and brick masonry including necessary curing, scaffolding in true line and level... etc., complete as directed by E.I.C.	150.20	Sq.m	233.51	35073.50
51	Distempering (THREE COATS) with oil bound PLASTIC EMULSION PAINT of ASIAN Paints of required shade on wall surfaces to give an even shade, over and including a priming coat with distemper primer of approved brand and manufacture after thoroughly brushing the surface free from mortar dropping and other foreign matter and also including preparing the surface even and sand papered smooth etc. complete as directed by E.I.C.	22.40	Sq.m	112.95	2530.04
52	Providing and applying two coats of Asian paints Ultima Apex brand on external wall surface of approved shade and colour after thoroughly brushing the surface free from water dropping, cement mortar and other foreign matter including one coat of Asian make Primer including preparing the surface even and smooth including necessary scaffolding... etc., complete as directed by E.I.C.	176.70	Sq.m	139.78	24699.83
A TOTAL FOR CIVIL WORKS				RS.	3401711.20

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6

B PLUMBING & SANITATION ITEMS

53	Providing and fixing Brass Ball cock (PVC HDP black) 40mm dia. of approved quality with necessary fittings including fixing in pipeline and testing the same etc... complete as directed by E.I.C.	4.00	Nos.	1276.50	5106.00
54	Providing and Fixing White PVC Water Tank of required Capacity of Sintex Pre Antimicrobial White colour including cost of all brass fixtures & fittings required as per given detail for inlet and outlet connections, air vent, cover, testing etc., complete as directed by E.I.C.	2000.00	Litre	17.20	34400.00
55	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 40mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete as directed by E.I.C.	20.00	Rmt.	442.04	8840.73
56	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 25mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete as directed by E.I.C.	20.00	Rmt.	249.72	4994.45
57	Providing and fixing concealed plumbing of C-PVC (SDR-13.5) Pipe having National Sanitation Foundation (NSF) seal for potable water of 15mm Dia. Nominal bore tube fittings and clamps including making good the wall, ceiling and flooretc. complete as directed by E.I.C.	20.00	Rmt.	166.86	3337.24
58	Providing and fixing 40mm dia Brass Forged Ball Valve of Zoloto/DRP Brand ISI quality fixing in pipeline and testing the same & make it leak proof, fix in true level with required nipple / clamp ... etc., complete as directed by EIC.	4.00	Nos.	2961.80	11847.20
59	Providing and fixing 25mm dia Brass Forged Ball Valve of Zoloto/DRP Brand ISI quality fixing in pipeline and testing the same & make it leak proof, fix in true level with required nipple / clamp ... etc., complete as directed by EIC.	4.00	Nos.	1311.30	5245.20
60	Providing and fixing Flush cock of Jaquar make Range Clarion code CQT-CHR-24081 with wall flange 25mm ceramic disc cartridge with plain knob including fixing in pipe line and necessary testing... etc., Complete as directed by E.I.C.	4.00	Nos.	3310.30	13241.20
61	Providing and fixing Bib Cock of Jaquar make Range Clarion code CQT-CHR-23047 with wall flange including fixing in pipeline and testing the same... etc., complete., as directed by EIC	10.00	Nos.	1800.30	18003.00

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
62	Providing and fixing 100 mm dia. Over head shower rose of Jaquar make code OHS-CHR-1989 Round shape Single Flow (ABS Body Chrome plated with Grey face Plate) with Rubit Cleaning System fixing in pipeline with CP. Nipple/shower bend & flange and testing & make it leak proof & flush to wall/ceiling surface etc complete and as directed by EIC.	4.00	Nos.	2119.70	8478.80
63	Providing and fixing Wall hung EWC of CERA make Model No S1043158 Carat with Carina Seat Cover Snow White Colour size 500x360x350mm with concealed P trap including jet spray & P.V.C. pipe connected including Angular Stop Cock of Jaquar make COP-CHR-057PM including jointing the trap with soil pipe in cement mortar 1:1(1 Cement: 1 Fine sand) and testing the same etc. complete as directed by E.I.C.	4.00	Nos.	8081.00	32324.00
64	Providing and fixing Wash Basin Cera make snow white colour Carpio -S2040213 wash basin with half pedestal - S2090142 Category no S2040213H size 500x410x165 fixing in true line and level with CI or MS brackets painted with same colour as basin including cost of providing and fixing CP brass waste coupling of 40 mm dia., PVC waste pipe, 15mm dia. C.P. Pillar cock Jaquar make code CQT-CHR-23011 capstan head C.P. screwed down high pressure with screw shank and back nuts & rubber plugs, 15mm dia.C.P. Stop cock Jaquar make code COP-CHR-057PM 15mm P.V.C. connection pipe etc. complete as directed by E.I.C.	4.00	Nos.	6236.90	24947.60
65	Providing and fixing 600 mm X 450 mm, 6mm thick Bevelled edge Mirror of Saint Gobain / Modi guard / Asahi make mounted on 19 mm plywood sheet and fixed to wooden plugs with CP brass screws and washers, in true line & level... etc. complete as	4.00	Nos.	833.73	3334.94
66	Providing and fixing Square 304-SS Towel rail of size 600mm complete fixed on wall or Dado tiles with wooden plugs with CP brass screws etc. complete as directed by EIC.	4.00	Nos.	603.19	2412.77
67	Providing and fixing PVC Nahni Trap of Supreme make of 110mm dia inlet and 75mm dia. outlet of self cleaning design including fixing PVC reducer of 110 mm dia to 75 mm dia., S.S. grating Jali of 150x150mm size and jointing with using adhesive solvent cement including cost of cutting and making good the walls and floors as per original etc. complete as directed by EIC.	12.00	Nos.	551.70	6620.40
68	Providing, laying and jointing in level and slopes 110 mm internal dia. SWR pipes of Finolex/Prince/Dutron/Astral make for Drainage line in floors including cost of necessary fittings such as bends, tees, clamps, rubber packing rings etc., jointing with adhesive solvent cement and making leak proof, testing the line and cutting and making floors and walls as per original etc. complete as directed by EIC.	20.00	Rmt.	463.80	9276.00

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
69	Providing, laying and jointing in level and slopes 75 mm internal dia. SWR pipes of Finolex/Prince/Dutron/Astral make for Drainage line in floors including cost of necessary fittings such as bends, tees, clamps, rubber packing rings etc., jointing with adhesive solvent cement and making leak proof, testing the line and cutting and making floors and walls as per original etc. complete as directed by EIC.	20.00	Rmt.	321.00	6420.00
70	Providing and fixing SW Gully trap of 150mm x 100mm size - P or R type with CI grating, brick masonry chamber and water tight CI cover with frame of 300 mm X 300 mm size (inside) with standard weight and Square mouth traps, including making in true line and level / slope, required excavation / refilling of excavated soil, brick work, plastering and curing etc. complete as directed by EIC.	4.00	Nos.	1246.92	4987.66
71	Constructing Brick Masonry Chamber for underground CI inspection chamber with Inside dimension 455 mm X 610 mm and 600 To 1800 mm deep for single pipe line including bricks having crushing strength not less than 35 kg/sqcm in CM 1:5, C.I cover with frame (light duty) 455mm X 610mm internal dimension, total wt. of cover with frame to be not less than 38 kg. (wt. of cover 23 kg and wt. of frame 15 kg), RCC top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 grade stone aggregate 20 mm size), foundation concrete 1:5:10, inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement slurry on walls and bed concrete... etc., complete as directed by EIC.	4.00	Nos.	2932.93	11731.72
72	Providing and fixing 110 mm dia., PVC Cowl Vent of Supreme make with working pressure 4 kg/sq.cm including jointing with adhesive solvent cement including fixing the same in true line and level... etc., complete as directed by EIC.	4.00	Nos.	137.90	551.60
73	Providing, lowering, laying and jointing in true line and level / slope 110 mm dia. rigid PVC pipes of Finolex/Prince/Dutron/Astral make of working pressure 4 kg/sq.cm for Rainwater Pipeline fitted concealed in walls including all necessary fittings such as bends, shoe bends etc., fixing the same with PVC clamps at 2 meter c/c, jointing with adhesive solvent cement, the cost of all materials, fixing air and water tight, testing the line including cutting and making floors and walls as per original etc. complete as directed by EIC.	24.00	Rmt.	338.20	8116.80

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
74	Providing and fixing Kitchen Platform Sink of Nirali make S.S. grade IS-304, Model Grace Deluxe Medium size 445x365x200mm Glossy finish in sandwiched kotah stones including cutting holes in walls / stones and making good the same including Sink Cock with Pipe Swinging Spout Continental Range code-COP-CHR-347PM of Jaquar make including Stop cock of Jaquar make code COP-CHR-057PM including cost of providing and fixing CP brass waist coupling of 40mm dia. and PVC connection pipe of 40 mm dia etc. complete as directed by EIC.	2.00	Nos.	10895.50	21791.00
75	Providing and constructing double wall SOAK WELL of 2.50m internal dia. & 5.00m depth internal clear dimension including the cost of excavation, foundation PCC 1:4:8, honey combed masonry & brick 3.00m height in C.M. 1:6 (1 cement : 6 coarse sand), casting R.C.C. 1:2:4 (1 cement : 2 sand, 4 graded sone aggregate 20mm nominal size) top slab 120mm thick with RCC Manhole cover 60cm x 45cm size and 75mm dia. C.I. pipe 1.80m long with 75mm dia cowl vent and filling between the wall including providing vata in C.M. 1:3 (1 cement : 3 sand), plastering up to top & outer wall up to 300mm deep from G.L., curing including cost of reinforcement etc. complete as per detail drawing & as directed by E.I.C	1.00	Nos.	78544.30	78544.30

B TOTAL FOR PLUMBING & SANITATION ITEMS**RS. 324552.61****TOTAL BUILDING COST****RS. 3726263.81**

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS AT AAU DHANDHUKA
SCHEDULE B ELECTRICAL WORKS
SUB ESTIMATE - 2 TYPE D1

Schedule B - Electrification Work - Quarter Type D1						
Sr No.		Item Description	QTY	Unit	Rate SOR (MATERIAL)	Amount
		POINT WIRING				
1		Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete.Cat III	18.00	Pt	481.00	8658.00
2		Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat III	5.00	Pt	668.00	3340.00
4		Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.				
		[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	3.00	Ea	471.00	1413.00
5		[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	2.00	Ea	689.00	1378.00
6		[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board.				
		(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat III	2.00	Ea	738.00	1476.00
7		Point wiring for on board looped PLUG with tissino type single pole ISI marked Switch and Socket erected with necessary connections erected on wooden /Metal/ PVC Box covered with 3 mm thick PC(Polycarbonate) /Acrylic sheet for open / concealed wiring for following size. [A] For 6 Amp.	6.00	Ea	66.00	396.00
8		Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm	20.00	Mtr	33.00	660.00

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS AT AAU DHANDHUKA
SCHEDULE B ELECTRICAL WORKS
SUB ESTIMATE - 2 TYPE D1

9		Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size] (A) with medium class Rigid PVC pipe and accessories				
10		(b) 2 wire 2.5 sq. mm	320.00	Mtr	82.00	26240.00
11		providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 4 sq. mm	120.00	Mtr	111.00	13320.00
		SUB TOTAL				56881.00
		LAMPS AND FITTINGS				
13		Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection, Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (A) LED Lamps integral type, with PC diffuser suitable LAMP holder (iii) 10 to 15 watts Cat-III	8.00	Nos	187.00	1496.00
16		Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy > 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver(v) 36-40 Watts, Surge-2 KV, IP-20, conventional 4 feet Cat III	6.00	Nos.	530.00	3180.00
		SUB TOTAL				4676.00
25		providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. conforming to IS 8828/1996 with ISI Mark CAT III	18.00	Ea	111.00	1998.00
26		Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) suitable for (B) three phase incoming and single phase horizontal type outgoing Per phase isolation type (PPI) (G) Three Phase 8 Way	1.00	Ea	2421.00	2421.00
20		The Above all items of MCB, DB the cost of erection on New angle iron frame add following. [B] above single phase 8 way and all three phase DBs.	1.00	Ea	246.00	246.00
21		providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii)25 Amps.DP Cat III	3.00	Ea	1950.00	5850.00

CONSTRUCTION OF B1 TYPE - 2 NOS. AND D1 TYPE - 2 NOS. STAFF QUARTERS AT AAU DHANDHUKA
SCHEDULE B ELECTRICAL WORKS
SUB ESTIMATE - 2 TYPE D1

		Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & conforms to IS :8828 in existing box having following capacity (b)40 Amp.	1.00	Ea	662.00	662.00
		SUB TOTAL				11177.00
		CABLES				
22		Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand / Solid Copper conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe at road crossing or floor of following size of cables.	30.00	Mtr	505.00	15150.00
		(C) 4 core 6 Sq. mm				
		SUB TOTAL				15150.00
		FANS				
40		Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos. Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM, 230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection, 50 Hz, Single phase AC Supply, earthing etc. Complete as required.[Make shall be approved by Engineer in Charge] (B) 1200 mm Sweep (48")	5.00	Ea	2857.00	14285.00
41		Supplying and erecting 19 / 20 mm. nominal bore Medium Class M.S. Pipe down rod erected duly painted for fan complete with proper insulation without leakage and earthing.	5.00	Mtr	107.00	535.00
42		Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	5.00	Ea.	107.00	535.00
43		Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	5.00	Ea	18.00	90.00
44		Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM				
		[A] 305 mm dia 900 RPM cat III	1.00	Ea	2034.00	2034.00
		SUB TOTAL				17479.00
		TOTAL FOR SINGLE D1 QUARTER			Rs.	105363.00
		TOTAL FOR 2 NOS D1 QUARTER			Rs.	210726.00