

ANAND AGRICULTURAL UNIVERSITY, ANAND.

**NAME OF WORK: CONSTRUCTION OF OFFICE-CUM-LABORATORY
BUILDING AT AAU, KANSARI**

GENERAL SUMMARY SHEET

SR. NO.	SUMMARY		COST	REMARK
1	TOTAL FOR CIVIL WORKS		35537173.86	A
2	TOTAL FOR PLUMBING AND SANITATION WORKS		1146916.24	B
3	TOTAL FOR ELECTRICAL AND HVAC		5301441.00	C
	TOTAL A + B + C		41985531.10	
	TOTAL SAY	Rs.	41985531.00	

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 OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

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.	899.90	Cum	122.94	110631.19
2	Excavation for foundation from 1.5 m to 3.0m 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... etc., complete as directed by E.I.C.	423.10	Cum	136.30	57668.32
3	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.	33.00	Cum	294.38	9714.70
4	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.	1356.00	Cum	136.92	185657.55
5	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.	154.40	Cum	481.80	74389.97
6	Providing and filling Rubble stone including hand packing and filling interstices with quarry spalls behind abutments and between returns as directed.	129.80	Cum	1094.11	142015.84
7	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.	175.00	Cum	2769.69	484696.22
8	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 including the cost of necessary formwork, compacting with vibrator, curing, cantering & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Footing and Column up to Plinth for any type of cross sectional area... etc., completed as directed by E.I.C.	202.500	Cum	5459.20	1105488.00
9	ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 including the cost of necessary formwork, compacting with vibrator, curing, cantering & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Wall/Pardi to Plinth for any type of cross sectional area... etc., completed as directed by E.I.C.	4.20	Cum	7894.80	33158.16
10	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.	44.70	Cum	4214.33	188380.37

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SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
11	Providing and laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 and Sill bands for any type of cross sectional area etc. completed as directed by E.I.C.	12.20	Cum	7101.80	86641.96
12	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 Ground Beams for any type of cross sectional area... etc., completed as directed by E.I.C.	31.80	Cum	7197.60	228883.68
13	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.	26.900	Cum	7197.600	193615.44
14	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.	128.70	Cum	6914.50	889896.15
15	Labour charge for concreting with Vaccume Dewatering Technique including loading earting, compacting complete with "C" channels as per requirement and labour charges etc., complete as directed by E.I.C.	144.900	Sq.m	198.000	28690.20
16	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.	85.80	Sq.m	1387.10	119013.18
17	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.	11.40	Cum	11488.20	130965.48

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
18	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.08 to 0.12... etc., complete as directed by E.I.C.	0.70	Cum	11927.00	8348.90
19	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.12 to 0.18... etc., complete as directed by E.I.C.	53.90	Cum	9961.70	536935.63
20	ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 including the cost of necessary formwork, compacting with vibrator, curing, cantering & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Wall/Pardi for any type of cross sectional area... etc., completed as directed by E.I.C. -Ground Floor	5.40	Cum	7894.80	42631.92
21	Providing and laying Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 .	0.70	Cum	7914.40	5540.08
22	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.08 to 0.12. , completed as directed by E.I.C.	31.60	Cum	10435.20	329752.32
23	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.12 to 0.18. , completed as directed by E.I.C.	26.30	Cum	8939.30	235103.59
24	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.	142.50	Cum	6990.80	996189.00
25	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.	3.10	Cum	10044.20	31137.02

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
26	Providing & Laying twisted, Factory made Epoxy Coated 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.	81850.50	Kg	86.00	7039143.00
27	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.	126.30	Cum	4496.05	567850.52
28	Providing and laying Half 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 1:4 (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.	43.60	Sq.m	684.26	29833.95
29	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.	2621.30	Sq.m	283.95	744321.80
30	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.	1716.10	Sq.m	352.44	604821.43
31	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.	583.50	Sq.m	1297.50	757091.25
32	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.	26.70	Sq.m	1777.50	47459.25

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
33	Providing, laying and fixing 600mm x 600mm size 18mm Thick even coloured Green Ready Mirror Polished Kotah Stone Slabs in Flooring of Rooms, Passages & Toilet and Treads of steps and landings laid on 20mm (average) base of CM 1:6 (1 cement : 6 course sand) laid over 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.	725.10	Sq.m	1650.50	1196777.55
34	Providing, laying and fixing 600mmx600mm size 18mm Thick even coloured Green Ready Mirror Polished Kotah Stone Slabs in Risers/Skirting etc. laid on 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including rubbing, polishing and curing...etc, completed in true line and level / slope and as directed by E.I.C.	50.40	Sq.m	1858.80	93683.52
35	Providing, laying and fixing 600mm x 600mm size 25 mm Thick Polished Kotah Stone Slabs in Flooring Parking and Godown 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.	295.10	Sq.m	1019.39	300822.87
36	Providing, laying and fixing 25mm Thick even coloured Polished Kotah Stone in Risers/Skirting etc. laid on 10mm thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry including cutting of edges in right angle manually [ghadai], rubbing, polishing and curing...etc, completed in true line and level / slope and as directed by E.I.C.	9.20	Sq.m	1184.24	10894.96
37	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.	458.50	Sq.m	1030.57	472518.04
38	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.	131.20	Sq.m	997.16	130827.77
39	Providing and fixing white coloured 3 track UPVC Windows of Ncl Veka - I 50 (German technology UPVC Profiles) Sliding series having 5 mm clear toughened glass, Slider O/F - 40502 - 15000 / 90 MM + 1 MM, Slider Sash - 40502 - 13000 / 57 MM + 1.5 MM, Flyscreen Sash - 40502 - 13000, with fibre mesh, Al Rail - Groove shaped, Single point accessories, Sliding touch lock right and Sliding touch lock left type handles, Fly screen handles for Flymesh, Single wheel roller without groove, Sliding parts as per detailed drawings and specifications, complete as directed by E.I.C.	88.20	Sq.m	6036.00	532375.20

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
40	Providing and fixing white coloured UPVC Ventilation system of Ncl Veka - 139 (German technology UPVC Profiles) Complant Casement series having 5 mm frosted glass, Outer frame - 41101 - 17000 / 39 MM + 1 MM, Mullion - 41201 - 04000 / 61 MM + 1.5 MM, including cutout for exhaust fan complete as per detailed drawings and specifications and as directed by E.I.C.	21.40	Sq.m	6036.00	129170.40
41	Providing and fixing 35mm Thick Both Side Laminated Water Proof Flush Door Shutters of Century, Archid, Green or Anchor make including first class hardwood and cross band, block board core with plywood face panels, 6mm thick batten patti all around the shutter, laminate of approved make and design including fixtures and fastening Godrej make Mortise Lock with Handle Set NEH 19 Rosette-Eco Pin Cylinder-9 Inch Lockbody-60 mm 1CK Cylinder-Knob-Antique Brass finish and Aks make 8"x1-1/2"x1-1/2" Brass hinges and AKS make Stopper Section Round 8"x12" 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.	108.10	Sq.m	9284.10	1003611.21
42	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.	3422.30	Sq.m	125.40	429161.90
43	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.	2365.90	Sq.m	133.11	314919.98
44	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.	1716.10	Sq.m	145.51	249710.91
45	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.	146.40	Sq.m	1966.31	287867.52

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
46	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.	1323.00	kg	113.30	149895.90
47	Providing and laying Laboratory 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.	39.10	sqmt	4824.60	188641.86
48	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.	34.70	Sq.m	3998.50	138747.95
49	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.	30.70	Sq.m	948.90	29131.23
50	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.	26.00	Sq.m	1859.79	48354.56
51	Providing and fixing 40MM Thick Fully Glazed Indian Teakwood shutters for Main Door including Indian Teak Wood Frames of 12 cm X 7cm size, 12mm square m.s. bar grill fixed in shutter style and 5mm Glass of Saint Gobain / Modi Float make including stainless steel fixtures and fastening of Godrej make Mortise Lock with Handle Set NEH 19 Rosette-Eco Pin Cylinder-9 Inch Lockbody-60 mm 1CK Cylinder-Knob-Antique Brass finish and Aks make 8"x1-1/2"x1-1/2" Brass hinges and AKS make Stopper Section Round 8"x12" including one coat of primer of Asian/Berger make and two coats of oil painting of approved colour and shade of Asian make etc. complete as per detailed drawing and as directed by E.I.C.	12.20	Sq.m	14275.400	174159.88

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Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
52	Providing and fixing in position Collapsible steel shutters with vertical channels 20 x 10 x 2 mm braced with flat iron diagonals 20 x 5 mm size with top and bottom rails of T_rin 40x 40 x 6 mm with 38mm dia, steel pulleys complete with bolts, nuts, locking arrangements, stoppers handles including one coat of primer of Asian/Berger make and two coats of oil painting of approved colour and shade of Asian make etc. complete as per detailed drawing and as directed by E.I.C.	27.200	Sq.m	1314.10	35743.52
53	Providing, fabricating and fixing Stainless Steel Railing of AISI-304 grade , using 50 mm dia Stainless steel pipe of 16 gauge, 3 nos. 16 mm dia SS pipe of 16 gauge, round balustrade of 38mm with complete assembly of SS studs to house the horizontal 16mm pipes and top handrail, bend and coupler to be used as per architectural detail drawings, for the railing, in parapet, stair... etc including fabricating, hoisting, fixing in position with angle cleats, holdfast etc in RCC or masonry, in true line level and plumb, including complete assembly, including matt polishing and buffing, complete, including scaffolding etc complete as directed by EIC.	135.40	Rmt	4785.00	647889.00
54	8 mm Calcium Silicate Aurorae False Ceiling Tile False ceiling Providing and fixing Aurorae -CS (Calcium Silicate Square Edge) Tile of Gyptech make at all heights of size 595 x 595 x 8 mm of approved texture, design and pattern. the tile should have paint finish and Pin hole semi perforation on the top face suspended with in true horizontal level suspended on interlocking T-Grid of hot dipped all round galvanized iron section of 0.30 mm thick comprising of main T runners of 24 x32 mm of length 3000 mm, cross T of size 24 x 25 mm of length 1200 mm and secondary intermediate cross T of size 24 x 25 mm of length 600 mm to form grid module of size 600 x 600 mm suspended from ceiling using galvanized mild steel item 50 mm long 8mm outer diameter M-6 dash fasteners, 6 mm diameter fully threaded hanger rod up to 1000 mm length and L shape level adjuster of size 85x25x2 mm, spaced at 1200 mm centre to centre along main 'T'. The system should rest on periphery walls /partitions with the help of GI perimeter wall angle of size 24 x 24 x3000 mm made of 0.40 mm thick sheet ,to be fixed to the wall with help of plastic rawl plug at 450 mm centre to centre & 40mm long wall S.S. screws. The exposed bottom portion of all T-sections used in false ceiling support system shall be pre painted with polyester baked paint, for all heights.The work shall be carried out as per detailed specifications, architectural drawings complete as directed by E.I.C.	222.800	Sq.m	1165.56	259686.77
55	Providing furnishing and erecting Electric Traction Elevator having 06 persons capacity, 1.00 MPS Speed, Ground + 2 floors travel, 3 stops and 3 openings, 415 volts - 3 phase - 50 hertz - alternating current power supply, Integrated panel control, down collective system operating, Gearless machine in the hoistway, Platform size - 1400 mm x 1500 mm, Car size from inside - 1340 mm x 1350 mm, hoistway - 2000 mm x 1850mm, Stainless Steel cabin with back side S.S. mirror, handrail, led lights and fan, SS car panels, PVC tiles flooring, SS vision cut door in car entrance, 900 mm x 2000 mm center opening, SS vision cut door for hoistway entrance, Automatic operational doors, Luminous hall button with up/down arrow at all floors, Spectra display at all floors and in car, blower battery operated alarm bell, emergency light and phone, Ceiling with led lights, VVVF Drive, complete as per detailed drawings and company's detailed specification and as directed by E.I.C.	1.000	Sq.m	1223056.00	1223056.00

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
56	Providing and fixing Rectangular M.S. Pipes in elevation 80x40 mm, 3mm body thickness, M.S. rectangular pipes fixed rigidly by gusset plates fixed rigidly to edge of slab by fasteners as per detailed architectural and structural drawings, 40mm side in elevation having 80mm clear distance between two pipes of asian/jindal/tata make including fabricating, hoisting, fixing in position 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 rectangular pipes 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	173.30	Sq.m	4046.95	701337.29
57	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.	174.00	Sq.m	894.00	155556.00
58	Providing throating of plaster Drip & Moulding to R.C.C. Chhajja, Roof Gutter etc. complete as directed by E.I.C.	53.60	Rmt	43.05	2307.28
59	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.	53.60	Rmt	24.28	1301.43
60	Providing and filling in sunk slabs light wt Burnt Cinder including compacting, curing and ready for executing China mosaic waterproofing on top etc., complete as directed by E.I.C. - All floors	29.30	Cum	2500.00	73250.00
61	Providing and applying general insecticide Pest Control treatment to floors , doors, cupboards, including labours, materials etc. complete as directed by EIC.	1029.20	Sq.m	91.63	94302.71

FIRST FLOOR

62	Providing and laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 (Sill band) for any type of cross sectional area etc. completed as directed by E.I.C. First Floor	5.90	Cum	7142.90	42143.11
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CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
63	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.- First Floor	11.60	Cum	11529.30	133739.88
64	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.08 to 0.12 ., complete as directed by E.I.C. - First Floor	0.70	Cum	11968.10	8377.67
65	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.12 to 0.18 , complete as directed by E.I.C. - First Floor	52.60	Cum	10002.80	526147.28
66	ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 including the cost of necessary formwork, compacting with vibrator, curing, cantering & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Wall/Pardi for any type of cross sectional area... etc., completed as directed by E.I.C.- First Floor	5.40	Cum	7935.90	42853.86
67	Providing and laying Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 .- First Floor	2.50	Cum	7955.50	19888.75
68	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 for cross sectional area 0.08 to 0.12 , completed as directed by E.I.C.- First Floor	25.20	Cum	10476.30	264002.76
69	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 for cross sectional area 0.12 to 0.18 , completed as directed by E.I.C.- First Floor	24.20	Cum	8980.40	217325.68

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
70	Providing and laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement : 1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.- First floor	0.80	Cum	7238.80	5791.04
71	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement : 1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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. - First floor	126.20	Cum	7032.00	887438.40
72	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement : 1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.-First Floor	3.10	Cum	13165.30	40812.43
73	Providing & Laying twisted, Factory made Epoxy Coated 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 including all lead and lifts... etc. completed as per detailed structural drg & details directed by E.I.C. for First Floor	34217.00	Kg	87.05	2978603.54
74	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. - First floor	129.10	Cum	4538.48	585917.17
75	Providing and laying Half Brick Work for First 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.- First floor	32.10	Sq.m	690.57	22167.21
76	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. - First floor	2529.50	Sq.m	311.18	787132.34

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
77	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. - First floor	439.70	Sq.m	935.10	411163.47

SECOND FLOOR

78	Providing and laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 (Sill bands) for any type of cross sectional area etc. completed as directed by E.I.C. Second Floor	2.50	Cum	7184.00	17960.00
79	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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.- Second floor	5.10	Cum	11570.40	59009.04
80	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.08 to 0.12 , complete as directed by E.I.C. - Second floor	0.70	Cum	12009.20	8406.44
81	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 cross sectional area 0.12 to 0.18 , complete as directed by E.I.C. - Second floor	29.80	Cum	10043.90	299308.22
82	ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 including the cost of necessary formwork, compacting with vibrator, curing, cantering & shuttering in true line and level etc. but excluding cost of reinforcement in RCC work for Wall/Pardi for any type of cross sectional area... etc., completed as directed by E.I.C.- Second Floor	5.40	Cum	7977.00	43075.80

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
83	Providing and laying Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 Chajja not exceeding 10 cm thickness for any level... etc. completed as directed by E.I.C. - Second floor	1.60	Cum	7996.70	12794.72
84	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 for cross sectional area 0.08 to 0.12 completed as directed by E.I.C. - Second floor	11.30	Cum	10517.40	118846.62
85	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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 for cross sectional area 0.12 to 0.18 completed as directed by E.I.C. - Second floor	8.60	Cum	9021.50	77584.90
86	Providing and laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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. - Second floor	5.30	Cum	7279.90	38583.47
87	Providing & laying ordinary Cement Concrete 1 : 1 : 2 (1 Cement :1 Coarse sand : 2 stone aggregate 20mm nominal size kapchi) IN M-25 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. - Second floor	44.40	Cum	7073.10	314045.64
88	Providing & Laying twisted, Factory made Epoxy Coated 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 including all lead and lifts... etc. completed as per detailed structural drg & details directed by E.I.C. for Second Floor	15424.00	Kg	88.10	1358866.74
89	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. - Second floor	102.90	Cum	4579.05	471183.95

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
90	Providing and laying Half Brick Work for First 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. - Second floor	13.60	Sq.m	696.87	9477.43
91	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. - Second floor	1095.90	Sq.m	338.41	370864.18
92	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. - Second floor	248.20	Sq.m	976.20	242292.84
93	Providing and erecting of Steel work welded in built up sections frames work including cutting, hoissting, fixing in position and applying a priming coat of read lead paint with painting two coats of enamle (A) in beams and joints, channels angles, Tees, flats with connecting plates or angle cleats as in main and cross beams. Hip and jack rafters, purlins connected to common rafters anf the like roof etc complete. as directed by EIC	7038.40	kg	91.08	641091.26
94	Providing and Fixing 6 mm thick Lexan polycarbonate multi wall roofing sheet fixed with hilti screw and rubber silicon sealer and alluminium strip of size 50 X 3 mm etc complete as directed by E.I.C.	163.50	Sq.m	1441.90	235750.03

A TOTAL FOR CIVIL WORKS RS. 35537173.86

B PLUMBING & SANITATION ITEMS

95	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.	8.00	Nos.	1221.00	9768.00
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CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
96	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.	5000.00	Litre	16.50	82500.00
97	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.	100.00	Rmt.	447.72	44772.29
98	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.	125.00	Rmt.	253.82	31727.89
99	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.	100.00	Rmt.	170.36	17035.88
100	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.	8.00	Nos.	2833.10	22664.80
101	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.	8.00	Nos.	1254.30	10034.40
102	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.	14.00	Nos.	3166.40	44329.60
103	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	25.00	Nos.	1722.10	43052.50
104	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.	2.00	Nos.	2027.60	4055.20
105	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.	14.00	Nos.	7735.80	108301.20

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
106	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.	18.00	Nos.	5958.60	107254.80
107	Providing and fixing Urinal of Cera make Caravan Pro Flat Back size 265mmx335mmX695mm of Snow White colour in true line and level including cost of PVC connection pipe of required length and dia and 40 mm dia pvc waste pipe including Cera make Urinal Division Plate Corvin size 130x355x720mm snow white coloured Code-S4090101 Coloured including Auto closing Concealed Urinal Flush Valve with Wall Flange of Jaquar make PRS-CHR-073 and Stop cock Jaquar make code COP-CHR-057PM over and above cleaning and checking the same and making it leak proof etc. complete as directed by EIC.	9.00	Nos.	14770.70	132936.30
108	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 directed by EIC.	18.00	Nos.	859.41	15469.36
109	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.	18.00	Nos.	616.42	11095.62
110	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.	48.00	Nos.	527.70	25329.60
111	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.	105.00	Rmt.	443.60	46578.00
112	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.	126.00	Rmt.	307.00	38682.00

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
113	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.	10.00	Nos.	1246.92	12469.16
114	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.	18.00	Nos.	2932.93	52792.72
115	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.	10.00	Nos.	131.90	1319.00
116	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.	288.00	Rmt.	323.50	93168.00
117	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.	3.00	Nos.	10547.00	31641.00
118	Providing and fixing Laboratory Sink of Cera make Model no Cater S6010103 size 660x460x250mm including Rim 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-347NPM of Jaquar including Stop cock of Jaquar make code COP-CHR-057PM make 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.	3.00	Nos.	13137.90	39413.70

CONSTRUCTION OF OFFICE-CUM-LABORATORY BUILDING AT
AAU, KANSARI
SCHEDULE - B - CIVIL-PLUMBING AND SANITATION

Item No.	Item Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6
119	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.	80764.50	80764.50
120	Providing and constructing B.B masonry and cement concrete for SEPTIC TANK of 3m x 0.9m x 1.5m depth internal dimension with excavation and depositing off the excavated stuff as and where directed including providing laying brick masonry in C.M. 1:6 (1 cement : 6 sand) with using common burnt clay conventional building brick having crushing strength not less than 35kg/sq.m for necessary compartment for chamber and septic tank with necessary inlet and outlet with cement plaster 15mm thick on wall, I.P.S. flooring, bed concrete, R.C.C. top slab, M.H. cover 600mm x 450mm of C.I., air vent pipe with cowl vent and cement vata of 10cm x 10cm size in C.M. 1:1 etc.. complete as directed by E.I.C.	1.00	Nos.	39760.73	39760.73

B TOTAL FOR PLUMBING & SANITATION ITEMS

RS.

1146916.244

TOTAL BUILDING COST

RS.

36684090.11

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
1		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	168	Point	577.00	582.77	97905.36
2		Point wiring for Modular secondary light point 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, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. 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	170	Point	199.00	200.99	34168.30
3		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	65	Point	802.00	810.02	52651.30
		Point wiring for Two Way Controlled Light Point 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 erected in below type of pipe with 6A Modular type switches and following type of accessories 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 batten/angle holder or ceiling rose or H.D.Connector as directed. (f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat. III	6.00	Point	718.00	725.18	4351.08
4		For separate Point 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 Cat. III	4.00	Point	606.00	612.06	2448.24
5		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. [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 Cat. III	12	Point	886.00	894.86	10738.32

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
6		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (10) 6/16Amp. Universal socket Cat.III	25	Each	198.00	199.98	4999.50
7		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. [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	22.00	Point	1036.00	1,046.36	23019.92
8		For Looped on switch board Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III	20.00	Point	306.00	309.06	6181.20
9		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (4) TV Co-axial Socket outlet Cat.III	2.00	Point	159.00	160.59	321.18
10		Providing & erecting Switch board for Computer or electric apparatus consisting of following modular type accessories mounted with PVC / Metallic concealed/open box with single mounting base frame covered with textured/metallic /white front plate,modules erected with necessary connections as directed 1 no. 6A/16A universal plug-switch combined. 3 nos. 6A Switch 3 nos. 6A 5 pin Plug For Modular Type Accessories Cat III	25.00	Each.	1122.00	1,133.22	28330.50
11		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 . (a) 20 mm. dia.	350	Mtr.	24.00	24.24	8484.00
12		(b) 25 mm dia.	650	Mtr.	33.00	33.33	21664.50
17		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 (a) 2 wire 1.5 sq. mm (For Lighting Switch board)	1180	Mtr.	78.00	78.78	92960.40
18		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 (b) 2 wire 2.5 sq. mm	1045	Mtr.	103.00	104.03	108711.35
19		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	1050	Mtr.	139.00	140.39	147409.50

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
20		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 (b) 2 wire 6 sq. mm	200	Mtr.	183.00	184.83	36966.00
21		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 (h) 4 wire 6 sq. mm	150	Mtr.	323.00	326.23	48934.50
22		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 (i) 4 wire 10 sq. mm (use earth wire of 4 sq.mm)	100	Mtr.	526.00	531.26	53126.00
23		Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm	800	Mtr.	21.00	21.21	16968.00
24		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (3) Two Pin/RJ-11 Telephone Socket [A] For One Gang Cat.III	17	Each	159.00	160.59	2730.03
25		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (8) Computer RJ-45 socket Cat.III	25	Each	159.00	160.59	4014.75
26		Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (7) Blank Plate Single Cat.III	25	Each	25.00	25.25	631.25
27		(19) Modular Indicating Call Bell	8	Each	326.00	329.26	2634.08
28		(20) Modular Buzzer	8	Each	148.00	149.48	1195.84
TOTAL OF POINT WIRING							811545.10
2.0		CABLE AND ACCESSORIES ARMOURED ALLUMINIUM CABLES.					
29		Providing and erecting FRLS-XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 kV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (I) 3 1/2 core 240 Sq. mm(120 Sq. mm 1/2 core)	0	Mtr.	1,388.00	1,401.88	0.00
30		(H) 3 1/2 core 185 Sq. mm (95 Sq. mm 1/2 core)	80	Mtr.	1,075.00	1,085.75	86860.00
31		Providing and erecting FRLS-XLPE (IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 kV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (B) 4 core 25 Sq. mm	100	Mtr.	227.00	229.27	22927.00
32		(A) 4 core 16 Sq. mm (if required)	50	Mtr.	182.00	183.82	9191.00

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
33		Providing and erecting FRLS-XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 kV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm	500	Mtr.	167.00	168.67	84335.00
34		Supplying & erecting FRLS-XLPE (IS:7098)(I)-88 ISI unarmoured copper cable 1.1 kV grade to be erected as directed of following size. (a) 7 core 1.5 Sq. mm (if required)	100	Mtr.	144.00	145.44	14544.00
35		Providing and erecting FRLS-XLPE (IS:7098)(I)-88 ISI armoured cable multistrand 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 cable. (A) 3 core 2.5 Sq. Mm	0	Mtr.	266.00	268.66	0.00
36		Providing and erecting FRLS-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. (A) 4 core 2.5 Sq. mm (if required)	20	Mtr.	336.00	339.36	6787.20
37		(B) 4 core 4 Sq. mm	110	Mtr.	451.00	455.51	50106.10
38		Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables. (A) 2 to 4 core 2.5 / 4 Sq. mm	2	Ea.	33.00	33.33	66.66
39		(C) 2 to 4 core 10 Sq. mm	20	Ea.	38.00	38.38	767.60
40		(D) 2 to 4 core 16 Sq. mm	2	Ea.	47.00	47.47	94.94
41		(E) 2 to 4 core 25 Sq. mm (Sigma, MCI, Comet Make Only)	2	Ea.	51.00	51.51	103.02
42		Providing and, fixing heavy duty flange type brass double compression type cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.					
42.1		(G) 3 & 1/2 core 185 Sq. mm (Sigma, MCI, Comet Make Only)	4	Ea.	236.00	238.36	953.44
42.2		(F) 3 & 1/2 core 150 Sq. mm (Sigma, MCI, Comet Make Only)	0	Ea.	189.00	190.89	0.00
42.3		(E) 3 & 1/2 core 120 Sq. mm (Sigma, MCI, Comet Make Only)	0	Ea.	139.00	140.39	0.00
42.4		(C) 3 & 1/2 core 70 Sq. mm (Sigma, MCI, Comet Make Only)	0	Ea.	102.00	103.02	0.00
42.5		(B) 3 & 1/2 core 35/50 Sq. Mm (Sigma, MCI, Comet Make Only)	0	Ea.	75.00	75.75	0.00
43		CABLE LUGS. Solderless crimping type Aluminium Lugs conforming to IS suitable for cable of following size evenly crimping with high pressure tool & connected to switchgear terminals with brass/ cadmium plate nut bolts in an approved manner (B) 10 Sq. mm. (ISI MARKED)	80	Ea.	13.00	13.13	1050.40
43.1		(C) 16 Sq. mm. (ISI MARKED)	8	Ea.	15.00	15.15	121.20
43.2		(C) 25 Sq. mm. (ISI MARKED)	8	Ea.	15.00	15.15	121.20
43.3		(E) 70 Sq. mm. (ISI MARKED)	4	Ea.	25.00	25.25	101.00
43.4		(I) 185 Sq. mm. (ISI MARKED)	16	Ea.	80.00	80.80	1292.80
43.5		(G) 120 Sq. mm. (ISI MARKED)	8	Ea.	45.00	45.45	363.60
44		Supplying & erecting approved make LAN cable of following size in existing pipe as per direction [C] CAT - 6	2100	Mtr.	47.00	47.47	99687.00
45		Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. (e) RG-11	100	Mtr.	62.00	62.62	6262.00
46		Solderless crimping type Copper lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (A) 1.5/2.5 to 6 Sq. mm (ISI MARKED)	20	Ea.	8.00	8.08	161.60
47		Providing and fixing approved make Perforated C type cable tray. Made from pre- galvanized sheet steel. The cable tray should be bended as per IS 2062/1079 . with max 17.5% perforation with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erected on existing support as per Specification and as per instruction of engineer in charge.. (3) 150 X 50 X 1.5 mm Thick	220	Rmt	319.00	322.19	70881.80
48		(5) 300 X 50 X 1.5 mm Thick	50	Rmt	467.00	471.67	23583.50
49		(2) 100 X 50 X 1.5 mm Thick	180	Rmt	272.00	274.72	49449.60

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
50		Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles,square,round, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.	250	kg	77.00	77.77	19442.50
CABLE AND ACCESSORIES							549254.16
3.0		LIGHT FIXTURE AND FAN					
51		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (iv) 22-24 watts, Surge-2 KV Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	6	Each	751.00	758.51	4551.06
52		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (ii) 11-15 watts, Surge-2 KV, Surge-2 KV Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	95	Each	423.00	427.23	40586.85

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
53		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20 (i) 5-9 watts, Surge-2 KV Surge-2 KV Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	17	Each	218.00	220.18	3743.06
54		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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 (iv) 22-24 Watts, Surge - 2kV, IP-20, conventional 4 feet Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	57	Each	370.00	373.70	21300.90
55		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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 (i) 5-9 watts, Surge-2 kV Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	18	Each	218.00	220.18	3963.24
56		Providing and erecting PVC body surface or pendent mounting LED Bulk type 9 watt Lighting Fitting with electronic driver. And lumen output from luminaire 720lm , input voltage range 90-300VAC , 50Hz cool white(3000 to 6500K), inbuilt driver, -20degC to +60degC working temperature, AL frame with Beam Angle 120deg	0	Each	780.00	787.80	0.00

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
57		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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.) (H) Mirror Light 9 Watts, wall mounted minimum 1 feet long Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	20	Each	309.00	312.09	6241.80
58		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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.) (I) Adjustable spot light with COB led having aluminium reflector of following wattage (iv) 30 Watts Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	5	Each	2140.00	2,161.40	10807.00
59		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 pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body 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 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.) (B) LED Panel Light with provision for Plane front frame with translucent cover fixed to housing complete.IP20(vi) 36 watts, 24" x 24", Surge- 2KV Cat-III (Note:-The manufacturer/ authorized Channel partner of the manufacturer has to submit 4 yrs free replacement Guarantee for complete Fixture) [Approval will be given strictly subject to item specification]	98	Each	1777.00	1,794.77	175887.46
60		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 (ii) 5 to 8 watts Cat-III	4	Each	111.00	112.11	448.44

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
61		Providing & erecting Approved make Power Saving 45 - 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3 blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))	2	Each	1929.00	1,948.29	3896.58
62		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")	65	Each	2857.00	2,885.57	187562.05
63		Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame.250mm with 1350 RPM Cat.II (Bajaj, Crompton, Usha Make Only)	15	Each	1687.00	1,703.87	25558.05
64		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.with Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	65	Each	107.00	108.07	7024.55
65		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.	65	Each	107.00	108.07	7024.55
66		Supplying & erecting Fan Hook of 10 mm M.S. Round bar grouted in RCC slab with Making the site as original.	65	Each	43.00	43.43	2822.95
67		Providing Fan clamp of 30 x 5 mm flat of required length & 10 mm M.S. Bolt & Nuts erected with necessary hook of 10 mm M.S. Round Bar.	65	Each	98.00	98.98	6433.70
68		Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	65	Each	18.00	18.18	1181.70
69		SITC of Vertical Air Termination Solid aluminium with Base- 10 mm dia and 1000 mm long. Air Termination Base tested for conditioning, Ageing Test & Lightning impulse current withstand test: 100 kA of 10/350µs waveform in an accredited Third party laboratory as per 6.3 & 6.4 of IEC 62561-1 2017 protocol with MAST 34mm dia 3000 mm long- Cold Galvanized	1	Each	9323.00	9,416.23	9416.23
TOTAL OF LIGHT FIXTURES ANF FAN							518450.17
4.0	STREET LIGHT						
70		Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminium housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V, Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K, Uniformity ratio >0.45, Luminaire efficacy> 100 lumens/watt . LED driver efficiency > 85 %.(fittings 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.) (C) Post Top Lantern LED fitting comprises of finish cast aluminum spigot and spun aluminum canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting driver and accessories wired upto terminal block.IP 65 (ii)32-40W Cat-III	0	Each	4056.00	4,096.56	0.00

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
71		Supplying and erecting approved make Octagonal pole made from HR sheet steel. The pole should be made as per IS. and shall be coated with hot dip galvanizing as per IS 2629/2633/4759, suitable suspend local wind speed with integral Junction box consist of terminal plate of min 6mm Hylam sheet, standard profile 35mmX7.5mm Din-Rail for MCB Mounting, stud type terminal and arrangement for cable termination to be erected With Suitable foundation (Included) as per details given by manufacturer considering site requirement. (H) 9 Mtr. Long 70 mm Top X 155 mm bottom dia, 3 mm thickness with 260mmX260mmX16mm base plate, 4-M24 Bolts and 750mm long with necessary G.I. Bolts. Approx Pole weight 97 kg	0	Each	17105.00	17,276.05	0.00
72		Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free & flame proof confirming BS with necessary end caps Internal and external bend, flat bends, coupler, tee etc. All necessary accessories and measuring of following sizes. [1] 75 mm x 50 mm trunking (MK / LK Make Only)	100	Mtr.	275.00	277.75	27775.00
73		100 mm x 50 mm trunking (MK / LK Make Only)	50	Mtr.	424.00	428.24	21412.00
STEET LIGHT							49187.00
6	WATER COOLER						
74		Providing & erecting water cooler having storage capacity 150 Ltr. & cooling capacity 150 Ltr.per hour @ an ambient temp of 45° C. The outlet temp. of the water should drop by 15°C within a hour, The water cooler should be comprising of hermetically sealed compressor, fan motor, condensing unit, water tank surrounded by evaporating, coil, thermostats, relay etc.complete with necessary inlet & outlet connection. The body of water cooler will be made from Stainless Steel and ISI Certified.	2	Nos.	60874	61,482.74	122965.48
75		Supplying & erecting 5 stage single reverse osmosis water purification system with M.S. powder coated frame, prefilter housing with 'O' ring presediment filter GAC filter, carbon filter suitable buster DC pump capacity 80 psi, mention with 40 psi inline type post carbon filter auto low & high pressure switches with following size of storage tank & LPH capacity & erected as directed [C] 50 Ltr / Hr with 150 psi 2 nos booster pump	2	Nos.	28899.00	29,187.99	58375.98
76		Providing & erecting stand alone ceiling mount PIR motion Sensor with ABS Housing single phase AC operation. Complete with Dual element pyroelectric sensor, Digital Signal Processing Detection Range 14 feet at 10 feet height, angle 360 degree, RFI and EMI immunity, Detects motion in it's coverage area. Multipurpose device can be used as security device, an energy saving device, an automatic switch. Complete with infra red sensor, Light & sensitivity Sensor, Timer with Bye pass facility. Suitable for 400 watts electrical load	10	Nos.	4323	4,366.23	43662.30
TOTAL FOR WATER COOLER							225003.76
8.0	SECTION : SUBSTATION EQUIPMENTS						
77		Providing and fixing printed instruction chart both in English and Gujarati and duly framed with front glasses, for treatment of person suffering from Electric shock with minimum 50" diagonally size.	1	each	129.00	130.29	130.29
78		Providing pair of rubber hand gloves suitable for working on 11 kV/22 kV supply.	0	each	212.00	214.12	0.00
79		Supplying rubber matting of following thickness as per IS:15652/IEC 61111 (a)3mm	10	Sq.Mtr	763.00	770.63	7706.30
80		Supplying stand first AID box with antiseptic cream, medicine for use on wounds due burn, crepe bandage, gauge bandage, medicated ready to use bandage (Band-aid) adhesive tape for medicinal user, Scissors, anti-septic solution (Savlon or similar) etc. (All above contents shall be of standard makes)	2	each	297.00	299.97	599.94
81		Supplying FIRE bucket round bottom of 9 litres capacity made out of 24 gauge G.I. sheet with extra handle at bottom duly painted white inside and Red out side with FIRE mark, filled with dry-sand and kept on existing stand provided or hung on wall hook.	5	each	212.00	214.12	1070.60
82		Supplying and erecting floor mounting stand for keeping four nos. of FIRE buckets comprising 1500 mm in length, 900 mm height frame made out of 30mm X30 mm X 4 mm angle iron with cross supports for legs, welded with 4 hooks and duly painted with one coat of red lead and two coats of approved enamelled silver paint.	1	each	933.00	942.33	942.33
83		Supplying & erecting carbon dioxide (CO2) fire extinguisher user of following capacity with necessary clamps made from 50 x 6 mm M.S. Flat with nut & bolts grouted in wall complete. [A] For 4.5 Kg Capacity	2	each	6526.00	6,591.26	13182.52

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
84		Supplying & erecting ABC powder type 'Ceasefire' type Fire extinguisher as per IS 13849 or 1 Kg capacity with necessary clamp for erection on wall	10	each	1527.00	1,542.27	15422.70
		TOTAL FOR SUB STATION EQUIPMENT					39054.68
9.0		SECTION : EARTHING					
85		Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)- Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency					
86		[C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA)i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc.. -Length of Pipe : 3 Mtrs. -Back filling Compound :2 nos. Bags of 25 Kg.	4	each	10489.00	10,593.89	42375.56
87		Providing one bag of 25 Kg. Additional Back Filling Compound (BFC) suitable for safe earthing device.	2	each	700.00	707.00	1414.00
88		Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	350	KG.	77.00	77.77	27219.50
89		Providing and erecting required size Copper strip for earthing of H.T. OCB / ACB/ Transformer, LT panel board, Motors etc. using copper clamp.	100	KG.	787.00	794.87	79487.00
90		Providing and erecting HOT deep Galvanised iron strip/wire 4.064 mm to 1.626 mm.	150	KG.	77.00	77.77	11665.50
		TOTAL FOR EARTHING					162161.56
10.0		MCB DB AND PANEL ASSECORIES					
91		Design, Supplying, installing, testing of factory fabricated ready made Three phase APFC Panel Cubical Panel fabrication should be type tested as per IEC 61921, 61439:1&2 Capacitor Duty Contactor for switching as per following Steps Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with OC, SC, internal earth fault protection Incomer Switch of MCCB type Icu=Ics=50KA at 400/440 Volts, with OC, SC, internal earth fault protection,Copper tinned insulated Busbar,Cubical panel should be indoor type with IP 43 and IK 10,Metalized polypropylene film tye3-phase 550Volt Capacitor,De tuning Reactor for each capacitor,Panel having Short Circuit and Overload protection,Each step Capacitor having suitable MCB with Sc, OL, internal earth fault relay,Each stage having Stage Contactor (Capacitor load rating),PF regulator master controller having suitable steps with LCD display, Rs 485 Communication port, Indication LED Lamps for main incomer and ON-OFF for each capacitor bank,MS Chanel for Floor mounting, Cable entry as per site situation,Cooling fans for panel (A)50KVAR	1	each	141527.00	1,42,942.27	142942.27

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
92		Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP42 & above protection as per require made from 2 mm. thick CRC M.S. sheet for outer body & doors, 1.5 mm. thick CRC M.S. sheet for internal partitions with necessary supporting angles, flats including skirting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-Charge with erection of supplied switchgears, busbars with suitable size of interconnecting PVC copper wire / Copper-Aluminium strips, rubber gromets, rib, control wires, bakelite control fuses, measuring instruments, earth bus & earth bolts, foundation flange-bolts-base plates, sufficient nos. of hinged doors, handle with locking arrangement, rubber gasket complete with Required Nos. heavy Duty Connector. heavy duty end terminal connection,danger notice board,necessary ventilation,earthing strip complete.The panel shall be supplied with Seven Tank chemical process which shall be carried out before applying painting, painted with powder coating. (The rates excludes the cost of switchgears, busbars, interconnecting mains & Copper / Aluminium strip, fuse, meters etc. The dimension shall be measured excluding base beams) Factory inspection for verification of quality,workmanship and as per drawing & testing before dispatch the material as per tender condition. The standard companies switch gear shall be used and only manufacturers at CPRI approved factory as per IEC 61439 and shall be certified by that company whose switch gears are used after fabrication for beneficial use.(C) The standard companies switch gear shall be used and only manufacturers as per IEC 61439 for beneficial use. With 350 mm depth	8.00	Sq.mtr	16230.00	16,392.30	131138.40
93		Panel manufacturer have to give 3 years maintenance and service support if in case of breakdown or fault. Panel manufacturer have to submit electrical meter calibration report. Agency should design the panel in such a way that there should not be any excess in panel area (sq.mtr) & length of bus bar (mtr), if any excess occurs draw attention at the time of approval of G.A. drawing. Loading and unloading of above item shall be done by hydra and skill work force under supervision of electrical engineer and guidelines given by manufacturer to avoid damage to the item. Picture of it to be submitted in running bill / final bill. Size of door and Ele. room / Pump room shall be checked by agency's engineer before giving order. If found any problem in size discuss with concern client engineer for rectification before giving order. [Including Necessary numbering / marking on PANEL done with red colour radium sticker as per site requirement and instructions given by site engineer / client on site.					
		Supplying and erecting triple pole & neutral 440V/ 500V panel mounting Aluminium Busbars with four equal Nos. of bus having current density not more than 0.8 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each busbar,erected in existing cubical panel with necessary connections. (A) Suitable for 100 Amp. Capacity	10	Rn. Mtr.	654.00	660.54	6605.40
94		(B) Suitable for 200 Amp. capacity	15	Rn. Mtr.	1027.00	1,037.27	15559.05
95		Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having Normal current rating 200A. with variable Thermal & magnetic release suitable to work on A.C.supply 50 Hz. with all internal connections, spreader tinned copper & complete erected in existing 16 G.M.S.housing Cat-III	2	Each	30685.00	30,991.85	61983.70
96		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 [c] 63 Amp. Cat.-III	8	Each	803.00	811.03	6488.24
97		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. Cat.-III	26	Each	728.00	735.28	19117.28
98		Providing & erecting 415 V MCB three Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (c)63 Amp. Cat.-III	1	Each	780.00	787.80	787.80

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
99		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. [For Panel & 3 phase DB]	210	Each	122.00	123.22	25876.20
100		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) For 40 Amp, DP Cat.-III	3	Each	2434.00	2,458.34	7375.02
101		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 (i) 25 Amps,DP Cat.-III	12	Each	2145.00	2,166.45	25997.40
102		Providing and erecting following additional parts for panel mounting MCCBs (A)Extended operating rotary handle with pad lock with three position trip,off,on suitable for 25A to 250 A panel mounting cat-III	2	Each	952.00	961.52	1923.04
103		Approved make Earth fault Relay suitable to mount with inter connection to moulded case circuit breaker having CT ratio & MCCB rating as following along with shunt trip 220 V AC with all internal connections & complete erected in existing M.S.housing. (2) 125 A -200 A , CT Ratio 1/200	3	Each	5427.00	5,481.27	16443.81
104		Supplying and erecting approved make set of indicator lamps of LED type lamp, lense cover, Bakelite holder complete erected with necessary connections	6	Each	43.00	43.43	260.58
105		Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.	1	Each	314.00	317.14	317.14
106		Supplying & erecting approved make Power Factor Meter 150mm dia flush/projection type/ balanced & unbalanced load to work with appropriately provided CT's 100/5A to 400/5A ratio & other accessories complete erected in M.S. box & connected to the circuit by means of PVC copper Core leads.	1	Each	5052.00	5,102.52	5102.52
107		Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1	Each	1543.00	1,558.43	1558.43
108		Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.	1	Each	1263.00	1,275.63	1275.63
109		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) (b) sheet steel double door (ii)6 way	1	Each	2885.00	2,913.85	2913.85
110		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) (b) sheet steel double door (iii)8 way	9	Each	3379.00	3,412.79	30715.11
111		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) (b) sheet steel double door (iv)12 way	1	Each	3836.00	3,874.36	3874.36

Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT AAU, KANSARI
SCHEDULE B - ELECTRICAL

SR No		ITEM DESCRIPTION	Qty	Unit	RATE	RATE WITH 1% L.C.	AMOUNT WITHOUT GST
112		Providing & Erecting Mains with ISI marked, 1.1 KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS:694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required. [f] One wire 10.00 sq. mm [For Panel Interconnection & Earthing]	200	Mtr	114.00	115.14	23028.00
113		(b) One wire 1.50 sq. Mm	150	Mtr	17.00	17.17	2575.50
114		(c) One wire 2.50 sq. mm	80	Mtr	27.00	27.27	2181.60
115		(d) One wire 4.00 sq. mm	50	Mtr	37.00	37.37	1868.50
116		(e) One wire 6.00 sq. mm	50	Mtr	56.00	56.56	2828.00
117		(g) One wire 16.00 sq. Mm	50	Mtr	141.00	142.41	7120.50
118		(e) One wire 70.00 sq. mm	20	Mtr	663.00	669.63	13392.60
TOTAL AMOUNT OF MCB DB AND ACCESSORIES							561249.93
TOTAL FOR ELECTRICAL							2915906.00

**Name Of Work- CONSTRUCTION OF OFFICE CUM LABORATORY BUILDING AT
AAU, KANSARI**

SCHEDULE - B - VRV AC					
Sr.No	DESCRIPTION	QTY	UOM	RATE	AMOUNT
1.1	Outdoor Unit (DAIKIN MAKE)				
A	44HP TOP DISCHARGE, COOLING ONLY (22+22)	1	Nos.	904364	9,04,364.00
1.2	Indoor Unit -				
1.2.a	Hi-wall with Receiver and Remote				
A	1.6 TR	19	Nos.	26899	5,11,081.00
B	2.1 TR	7	Nos.	27870	1,95,090.00
1.3	REF JOINTS	20	Nos.	3500	70,000.00
	SUB TOTAL (HIGH SIDE) Without tax				16,80,535.00
Installation Of Units With VRV System					
1	Installation of Variable Refrigerant System				
1.1	Out-door units - 44HP	1	Nos.	60000	60,000.00
	Out Door Unit Loading , Unlodng , Lifting , Shifting , Installation & Testing With Commisioning				
	And Required gas Top Up With vacuming, lifting and shifting	1	Nos.	40000	40,000.00
1.2.a	Hi-wall with Receiver and Remote	26	Nos.	2500	65,000.00
1.3	Supply & Installation of the following components of VRV				
a	Refrigerant piping between indoor & outdoor units. Refrigerant pipes should be insulated - Aprox	1	LOT	450000	4,50,000.00
b	Control cables between indoor and outdoor unit - Aprox	1	LOT	45000	45,000.00
c	PVC Drain Pipe For The Units - Aprox	1	LOT	45000	45,000.00
	SUB TOTAL (Low Side) Without tax				7,05,000.00
	TOTAL FOR HVAC				23,85,535.00