

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No. AAI/CIA/ AMED-VII/ LTP-BSS /2020-21/A- 20

Date: 01.10.2020.

M/s. Chennai Engineering Services.,

Plot 30, Door No.1-536, Krishna Nagar,
1st Street, Manapakkam,
Chennai - 600 125.

Sub: SITC of LT Panels at Domestic and International Basement Substations at Chennai Airport.

Ref: Tender ID: 2020_AAI_47200_1.

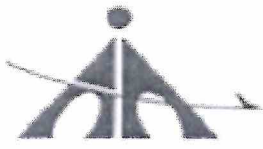
Tender Ref. No.: AAI/CHE/AMED-VII/2020/01.

Dear Sir (s),

1. Your E-tender for the above mentioned work is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs. 2,15,54,310/-** (Rupees Two Crores Fifteen Lakhs Fifty Four Thousand Three Hundred and Ten Only) which is 27.96% below the Justified Cost of **Rs. 2,99,20,471/-** (Rupees Two Crores Ninety Nine Lakhs Twenty Thousand Four Hundred and Seventy One Only) which is inclusive of all the taxes, duties and levies etc., except GST which will be paid extra as applicable.
2. Jt. General Manager (Engg-Elect)-I, AMED, Operational Office, Airports Authority of India, Chennai Airport, Chennai – 600 016 shall be the Engineer-In-Charge of the work. You are requested to attend to the office of Jt. General Manager (Engg-Elect)-I, AMED, AAI, Chennai Airport by **10.10.2020** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.
3. An Amount of **Rs. 21,55,431/-** (Rupees Twenty One Lakhs Fifty Five Thousand Four Hundred and Thirty One Only) is to be deposited by you towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per Clause 1A of General Conditions of Contract.
4. You are also directed to contact the Jt. General Manager (Engg-Elect)-I, Airport Maintenance Electrical Division, Operational Office, Airports Authority of India, Chennai Airport or his Authorised representative immediately for the execution of the above work.
5. You are requested to comply with the provision of Contract Labour Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971 and Minimum Wages Act and Rules thereof Central and State Governments.
6. Please note that the time allowed for carrying out the work shall be **04 (Four) Months** which shall be reckoned from the 10th day of issue of this letter.

फैक्स: 044 - 2256 0008 ई पी ए बी एक्स: 2256 0551, चेन्नई हवाई अड्डे, चेन्नई – 600 016.

Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai – 600 016.



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AIRPORTS AUTHORITY OF INDIA

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7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-In-Charge.
8. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

Yours faithfully,

(G.N.D.Kennedy)
Joint General Manager (Engg - Elect)-I,
For and on behalf of the Chairman,
Airports Authority of India.

Encl: Schedule of Quantity (06 Pages)



AIRPORTS AUTHORITY OF INDIA
CHENNAI INTERNATIONAL AIRPORT
CHENNAI - 600 016

SCHEDULE OF WORK

NAME OF WORK: SITC of LT Panels at Domestic and International Basement Sub-Stations at Chennai Airport.

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
1.00	SH-I: SUPPLY of SUB-STATION EQUIPMENT				
1.01	LT PANELS AND CABLES				
1.02	Fabrication and supply of cubical type LT Panel - tested design as per IEC 61439-1 & 2 suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply, made out of 1.6 mm thick CRCA sheet steel/GI Sheet for frame work and covers, 3 mm thick for gland plates, dust tight, vermin proof, totally enclosed, compartmentalised design, floor mounting, free standing, extensible on both sides i/c cleaning & finishing complete with 7 tank process for powder coating in approved shade, having 4000 Amps capacity FP Aluminium bus bars of high conductivity, DMC/SMC bus bar supports with short circuit withstand capacity of 50 KA for 1Sec., bottom base channel of MS section not less than 100 mm x 50 mm x 5 mm thick, fabrication shall be done in transportable sections, entire panel shall have a common copper earth bar of size 50mm x 5 mm at the rear with 2 nos earth stud, solid connections from main bus bars to switch gears with required size of Aluminium bus bars and control wiring with 2.5 Sq.mm. FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates in two half and suitable for indoor operation, complete with all accessories, interconnection, earthing, alignment with the bus ducts etc., as required and comprising of following switch gears: (NIT & NDT Basement SS)				
1.03	Incoming				
1.04	Two No. 3200 A, 50KA (Ics=Icu), Four Pole, EDO type Moulded case design ACB as INCOMER conforming to IEC 60947-2:2003 as ammended up-to- date with LCD display, inbuilt Metering, Overcurrent, Short circuit & Earth fault protection with variable current & time delay setting, Instantaneous protection, current demand & phase to neutral voltage on display, % loading of each phases on LED/LCD bar graphs, with Microprocessor Based Releases and provided with separate suitable rated Cast Resin CTs with Digital Multifunction Meter having RS 485 port, shunt trip coil 220 V AC, LED Phase Indication Lamps, circuits along with 2 Amps control MCBs as backup protection, breaker ON/OFF/TRIP/SPRING Charge LED indicating lights along with control MCBs as per standard practice, Mechanical/ Electrical Interlocking arrangement between the incomers & bus coppler alongwith interlocking relays, lock & keys i/c Control MCBs, control terminals & wirings etc as required.				
1.05	Outgoing:-				
1.06	a)Four Nos. 630 A, 50 KA, Four Pole MCCB (Ics=Icu) with inbuilt O/L and S/C fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with digital Multifunction Meter having RS 485 port, ON/OFF/TRIP LED indication lamp along with control MCBs etc, as required.				
1.07	Two Nos. 400 A, 50 KA, Four Pole MCCB (Ics=Icu) with inbuilt O/L and S/C fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with digital Multifunction Meter having RS 485 port, ON/OFF/TRIP LED indication lamp along with control MCBs etc, as required.				
1.08	Twelve Nos. 250 A, 36 KA, Four Pole MCCB (Ics=Icu) with inbuilt O/L and S/C fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with digital Multifunction Meter having RS 485 port, ON/OFF/TRIP LED indication lamp along with control MCBs etc, as required.				
1.09	Six Nos. 200 A, 36 KA, Four Pole MCCB (Ics=Icu) with inbuilt O/L and S/C fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with digital Multifunction Meter having RS 485 port, ON/OFF/TRIP LED indication lamp along with control MCBs etc, as required.				

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
1.10	Two Nos. 160 A, 36 KA, Four Pole MCCB (Ics=Icu) with inbuilt O/L and S/C fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs for digital Multifunction Meter having RS 485 port, ON/OFF/TRIP LED indication lamp along with control MCBs etc, as required.				
1.11	Four Nos 630 A, 50 KA Four Pole On Load Change Over Switch, with suitable Aluminium Bus Links for both at Input & Out put, Including Providing ON/OFF LED indication lamp along with control MCBs etc, as required.				
1.12	Two Nos 400 A, 50 KA Four Pole ON Load Change Over Switch, with suitable Aluminium Bus Links for both at Input & Out put, Including Providing ON/OFF LED indication lamp along with control MCBs etc, as required.				
1.13	Ten Nos 250 A, 36 KA Four Pole On Load Change Over Switch, with suitable Aluminium Bus Links for both at Input & Out put, Including Providing ON/OFF LED indication lamp along with control MCBs etc, as required.				
1.14	Four Nos 200 A, 36 KA Four Pole On Load Change Over Switch, with suitable Aluminium Bus Links for both at Input & Out put, Including Providing ON/OFF LED indication lamp along with control MCBs etc, as required.				
1.15	Bus Couplers:-				
1.16	One No 3200 Amps each Four Pole horizontal drawout EDO type Modular Air circuit breaker of fault breaking capacity 50 KA (Ics=Icu) fitted with in built metering, interlocked door, automatic safety shutter, mechanical ON/OFF and service/ test/ isolation position indicators and frame earthing contact, conforming to IEC 60947-2:2003 as ammended up-to- date complete including having Separate Cable Adopter Chamber in the First Part of Panel to attach with the other part of Panel etc., as required.				
1.17	Bus Bar:				
1.18	One Set of FP Aluminium Bus Bars of minimum of 4000 A Capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bar cross section supports & their spacing etc. for meeting fault level of 50 KA for 1 Sec with adequate size aluminium busbar for interconnection of incomer and outgoing switchgears and 50x5mm coper earth strip etc, as required.				
1.19	Interlocking: Electrical interlocking through advance contacts in ACB's (incommer & Bus coupler) and mechanical interlocking should be to ensure that only one supply is available at a time on each section of bus and to eliminate any possibility of accidently approaching two supply at one bus section.				
1.20	ALL AS ABOVE 1.01 To 1.19	4	Job	34,00,000.00	1,36,00,000.00
2.00	BUS TRUNKING SYSTEM				
2.01	Supply of 3200 Amps, 65 KA for 1 sec, Indoor IP 54 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 for providing incoming supply to proposed new 04 nos. LT panels including fabrication, for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints & expansion joints and bends, adopter box and Copper Flexible for Joints, with integral earth, suspenders, angle iron bracket, fasteners, connecting to existing earthing system etc. as required. Note : Bus Trunking Shall be measured along the length of enclosure of Straigh Run/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trunking quantity.				
2.02	Straight Run Bus Duct	70	Meter	19,600.00	13,72,000.00
2.03	90 Degree Bend(500 mm x 500 mm)	20	Nos.	23,300.00	4,66,000.00
2.04	Phase Cross Over (1500 mm)	3	Nos.	36,400.00	1,09,200.00
2.05	End Flange (500 mm)	16	Nos.	18,500.00	2,96,000.00
2.06	Adopter Box	8	Nos.	7,220.00	57,760.00
2.07	Copper Flexibles for End Termination	16	Nos.	73,900.00	11,82,400.00

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
3.00	Supply of 800 Amps, 50 KA for 1 sec, Indoor IP 54 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 including fabrication, for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints & expansion joints and bends, adopter box and Copper Flexible for Joints, with integral earth, suspenders, angle iron bracket, fasteners, connecting to earthing system etc as required. Note : Bus Trunking Shall be measured along the length of enclosure of Straigh Run/T Section/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trunking quantity.				
3.01	Straight Run Bus Duct	30	Meter	6,370.00	1,91,100.00
3.02	90 Degree Bend(500 mm x 500 mm)	6	Nos	7,500.00	45,000.00
3.03	Phase Cross Over (1500 mm)	3	Nos	11,600.00	34,800.00
3.04	End Flange (500 mm)	8	Nos	4,500.00	36,000.00
3.05	Adopter Box	8	Nos.	3,100.00	24,800.00
3.06	Copper Flexibles for End Termination	6	Nos.	15,000.00	90,000.00
4.00	Supply of 630 Amps, 40 KA for 1 sec, Indoor IP 54 Sandwich Type Bus Trucking complying to IEC 61439-1 & 6 including fabrication, for use on 3 Phase 4 Wire, 415 Volts, 50 Hz AC supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints & expansion joints and bends, adopter box and Copper Flexible for Joints, with integral earth, suspenders, angle iron bracket, fasteners, connecting to earthing system etc. as required. Note : Bus Trunking Shall be measured along the length of enclosure of Straigh Run/T Section/Bend. The aluminum strips which will go inside L.T Panels & end termination boxes of transformers shall not be taken in to measurement of bus trunking quantity.				
4.01	Straight Run Bus Duct	20	Meter	5,500.00	1,10,000.00
4.02	90 Degree Bend(500 mm x 500 mm)	6	Nos	6,500.00	39,000.00
4.03	Phase Cross Over (1500 mm)	3	Nos	10,000.00	30,000.00
4.04	End Flange (500 mm)	8	Nos	4,000.00	32,000.00
4.05	Adopter Box	8	Nos.	3,100.00	24,800.00
4.06	Copper Flexibles for End Termination	6	Nos.	12,325.00	73,950.00
5.00	Supply of 250 A, 4P, 50KA, Four Pole MCCB (Ics=Icu) as TIE LINE with inbuilt Overload and Short circuit fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with Digital Multifunction Meter, ON/OFF/Trip LED Indication Lamps in the existing LT Distribution Panel at Switch rooms of NITC/NDTC i/c providing suitable rating copper Busbar/Multistranded Insulated copper cable with all accessories, Providing of Mechanical Interlock, providing necessary materials for interconnection, connection, earthing and painting of door, etc. as required.	10	Job	45,000.00	4,50,000.00
6.00	Supply of Aluminium Conductor, XLPE insulated, PVC sheathed, armoured power cable of 1.1 KV grade of following Sizes conforming to IS 7098 (Part-1) as amended upto date as required.				
6.01	3½ X 185 Sq. mm.	100	Meter	700.00	70,000.00
Total of SH-I Rs.					1,83,34,810.00
7.00	SH - II : SITC of SUB-STATION EQUIPMENTS AND ASSOCIATE WORKS				
7.01	Installation, Testing and Commissioning of 415V, 4000 Amps Bus bar rating, MV Panel mentioned at SH-I / SOQ Item No.1 etc. complete as required. (for NITC & NDT basement LHS & RHS SS)	4	Job	2,10,000.00	8,40,000.00
8.00	Installation, Testing and Commissioning of 3200 Amps Indoor Sandwich type Bus trunking system consist of straight Run bus duct, T section, 90 Degree bend & phase cross over, End Flange, Adaptor Box & Copper flexible for End Termination items mentioned at SH-I/SOQ Item No.2	95	Meter	2,000.00	1,90,000.00

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
9.00	Installation, Testing and Commissioning of 800/630 Amps Indoor Sandwich type Bus trunking system consist of straight Run bus duct, T section, 90 Degree bend & phase cross over End Flange, Adaptor Box & Copper flexible for End Termination items mentioned at SH-I/SOQ Item No.3 & 4.	90	Meter	600.00	54,000.00
10.00	Supply, Replacement, Testing and Commissioning of 3200 A, 50 KA, 4P EDO Type Modular ACB as out going [suitable for indoor operation at 433V, 3 phase, 4 wire, 50Hz, A.C. system] with inbuilt Overload and Short circuit fault Protection with microprocessor based release and provided with three nos. Cast resin of suitable rating CTs with Digital Multifunction Meter with RS 485 Port, ON/OFF/Trip/Spring Charge LED Indication Lamps with control MCB in the existing LT Panel and with One Set of Copper Bus Bars of 4000 A Capacity including Neutral for complete with all accessories, providing necessary materials for connection and provision upto Bus duct Termination, earthing and painting including dismantling of existing 800 A ACB from the from the existing LT Panel at NIT and NDT Basement SS and handing over the same to AAI store etc., as required.	8	Job	3,90,000.00	31,20,000.00
11.00	Installation, Testing and Commissioning of 250 Amps, 36 KA, 4P, MP based MCCB Tie Line feeder with mechanical interlock in existing Panel mentioned at SH-I / SOQ Item no. 5 including all connections and interconnections etc. items mentioned at SH-I/SOQ Item No.6	10	Job	2,000.00	20,000.00
12.00	Supply and Fixing of nominal 2 mm (Width 1 Mtr) thick PVC synthetic, electric insulated mats conforming to IS 15652-2006 along with suitable adhesive/ chemibond, i/c providing water proofing of floor, (chipping of floor if required) sealing of all joints etc., as required	150	Meter	700.00	1,05,000.00
13.00	Providing and fixing 50 mm X 5 mm copper strip in suitable dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer i/c excavation of bituminous/ concrete road/ pavement & excavation of Soil to the depth of 0.30 Mtrs from ground, refilling the Soil and with Bitumen on top for 0.15 Mtrs after laying Pipe and making good the same to original etc., as required.	25	Meter	1,800.00	45,000.00
14.00	Providing and fixing 50 mm X 5 mm copper strip on surface or in recess (including cutting of concrete floor and finishing to original floor) for connections etc. as required.	100	Meter	1,450.00	1,45,000.00
15.00	Providing and fixing earth bus of 50 mm X 5 mm copper strip on surface for connections etc. as required.	100	Meter	1,350.00	1,35,000.00
16.00	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
16.01	150 mm width X 50 mm depth X 1.6 mm Thickness	100	Meter	450.00	45,000.00
16.02	300 mm (W) X 62.5 mm (D) X 2.0 mm Thickness	100	Meter	680.00	68,000.00
	Total of SH-II Rs.				47,67,000.00
17.00	SH:III DISMANTLING OF APFC PANELS AND LAYING OF LT CABLES				
17.01	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.				
17.02	Above 35 sq. mm and upto 70 sq. mm	50	Meter	40.00	2,000.00
17.03	Above 95 sq. mm and upto 185 sq. mm	50	Meter	70.00	3,500.00
17.04	Above 185 sq. mm and upto 400 sq. mm	50	Meter	110.00	5,500.00
18.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
18.01	Above 35 sq. mm and upto 70 sq. mm	100	Meter	40.00	4,000.00
18.02	Above 95 sq. mm and upto 185 sq. mm	300	Meter	60.00	18,000.00
18.03	Above 185 sq. mm and upto 400 sq. mm	400	Meter	90.00	36,000.00
19.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
19.01	Above 35 sq. mm and upto 70 sq. mm (clamped with 25x3mm MS flat clamp)	100	Meter	100.00	10,000.00
19.02	Above 95 sq. mm and upto 185 sq. mm (clamped with 25x3mm MS flat clamp)	200	Meter	120.00	24,000.00
19.03	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	200	Meter	180.00	36,000.00

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
20.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
20.01	Above 35 sq. mm and upto 70 sq. mm (clamped with 25x3mm MS flat clamp)	100	Meter	70.00	7,000.00
20.02	Above 95 sq. mm and upto 185 sq. mm (clamped with 25x3mm MS flat clamp)	600	Meter	80.00	48,000.00
20.03	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	600	Meter	140.00	84,000.00
21.00	Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
21.01	3.5 X 70 Sq.mm	20	Job	400.00	8,000.00
21.02	3.5 X 95 Sq.mm	25	Job	500.00	12,500.00
21.03	3.5 X 120 Sq.mm	20	Job	500.00	10,000.00
21.04	3.5 X 185 Sq.mm	30	Job	700.00	21,000.00
21.05	3.5 X 300 Sq.mm	40	Job	1,000.00	40,000.00
21.06	3.5 X 400 Sq.mm	40	Job	1,200.00	48,000.00
22.00	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
22.01	3.5 X 70 Sq.mm	20	Job	1,700.00	34,000.00
22.02	3.5 X 95 Sq.mm	20	Job	1,800.00	36,000.00
22.03	3.5 X 120 Sq.mm	20	Job	1,800.00	36,000.00
22.04	3.5 X 185 Sq.mm	20	Job	2,600.00	52,000.00
22.05	3.5 X 300 Sq.mm	20	Job	3,300.00	66,000.00
22.06	3.5 X 400 Sq.mm	20	Job	3,300.00	66,000.00
23.00	Dismantling and transporting of following APFC Panel and Sandwich Bus Duct : (a) APFC Panels -12 Nos of 800 KVAR capacity (8 X 25 KVAR + 12 X 50 KVAR) with APFC Relay, Main Incomers - 1600 Amps 4 P ACB and O /G 400 Amps MCCBs = 4 Nos, 200 Ams MCCBs = 4 Nos., 125 Amps MCCBs =8 Nos) installed at NITC & NDTC Basement SS. (b) APFC Panels -4 Nos of 400 KVAR capacity (2 X 100 KVAR + 2 X 50 KVAR+ 4 X 25 KVAR) with APFC Relay, Main Incomers - 800 Amps 4 P ACB and O /G 400 Amps MCCBs = 2 Nos, 160 Amps MCCBs = 2 Nos, 63 Amps MCCBs =4 Nos) installed at Central Substation (c) 800 Amps Al. Sandwich bus duct - 50 Metres & 1600 Amps Al.Sandwich bus duct - 98 Metres (d) shifting and transporting of the above (a) to (c) to Central Sub-Station, Storage/Stacking of same at Central Sub-Station, Covering with tarpaulin of thickness 1 mm and handing over to the AAI Store as per the instructions of Engineer-in-charge etc., as required.	1	Job	50,000.00	50,000.00
24.00	Providing Civil Works as required as detailed below:				
24.01	Cement concrete in 1:3:6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	5	Cu Mtr	5,000.00	25,000.00
24.02	Cement mortar in 1:6 (1 cement: 6 coarse sand)	5	Cu Mtr	3,000.00	15,000.00
23.03	Brick work with bricks of class designation 60 in foundation and plinth in 1:6 (1 cement: 6 coarse sand)	10	Cu Mtr	4,000.00	40,000.00
24.04	Cement plaster 12mm thick of mixture 1:6	100	Sq.Mtr	150.00	15,000.00
	Total of SH-III Rs.				8,52,500.00
	Total of SH-I+II+III Rs.				2,39,54,310.00

Sl. No.	Item Description	Qty	Units	Base Rate Excluding GST	Total Amount Excluding GST
25.00	SH-IV: TAKEAWAY of APFC PANEL				
25.01	Takeaway of following APFC Panel and Sandwich bus duct as and where basis: (a) APFC Panels -12 Nos of 800 KVAR capacity (8 X 25 KVAR + 12 X 50 KVAR with APFC Relay, Main Incomers - 1600 Amps 4 P ACB and O /G 400 Amps MCCBs = 4 Nos, 200 Ams MCCBs = 4 Nos., 125 Amps MCCBs = 8 Nos), 63 Amps MCCBs = 4 Nos), contactors 36 A -8 Nos , 75 A -12 Nos, contactors, ACB, MCCBs of L&T Make and capacitors of EPCOS Make installed at NITC & NDTC Basement SS. (b) APFC Panels -4 Nos of 400 KVAR capacity (2 X 100 KVAR + 2 X 50 KVAR+ 4 X 25 KVAR with APFC Relay, Main Incomers - 800 Amps 4 P ACB and O /G 400 Amps MCCBs = 2 Nos, 160 Amps MCCBs = 2 Nos, 63 Amps MCCBs = 4 Nos), contactors 36 A -4 Nos, 75 A -5 Nos, contactors, ACB, MCCBs of L&T Make and capacitors of EPCOS Make installed at Central Substation. (c) 800 Amps Al. Sandwich bus duct - 50 Metres & 1600 Amps Al. Sandwich bus duct - 98 Metres - C&S Make.	1	Job	24,00,000.00	24,00,000.00
	Total of SH-IV Rs.				24,00,000.00
	Total of SH-I+II+III-IV Rs.				2,15,54,310.00

(Rupees Two Crores Fifteen Lakhs Fifty Four Thousand Three Hundred and Ten Only)

Note: Applicable GST will be paid extra as per actual


Jt. General. Manager (E-E)-I