



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

संदर्भ सं. : भा.वि. प्रा./अभि./स.म. अभि.(वि)/जी. एच. वाइ-चि. डबल्यू-46/2019-20
FILE NO. : AAI/ENGG/Jt.GM(E-E)/GHY-CW-46/2019-20

दिनांक
04.03.2020
DATE04.03.2020.....

सेवा में / To,

M/s M.S. Construction,
Near Telephone exchange,
Guwahati Airport,
Guwahati-781015.

विषय/Subject:- Relocation of LLZ & Glide path at LGBI airport Guwahati. SH: Electrical works.

संदर्भ / Ref : 1) टेंडर खुलने का दिनांक / Your tender opened on Dt:19.02.2020.

2) निविदा संख्या व तारीख / NIT No. & Dt: AAI/ENGG/AGM(E-E)/GHY/NIT-25/2019-20/75-85, Date:14.01.2020.

Bid No. 2019_AAI_40268_1

प्रिय महोदय

1. उपर्युक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आप द्वारा उद्धरित मद दर जिसकी कुल राशि रु.1,11,89,530.00 (रुपया एक करोड़ ग्यारह लाख नवासी हजार पाँच सौ तीस मात्र) है (जीएसटी को छोड़कर) जो कि अनुमानित लागत रु.1,31,21,787/- (जीएसटी को छोड़कर) से 14.73% प्रतिशत कम है।
Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India at the item rates quoted by you totaling to Rs.1,11,89,530.00 (Rupees One Crore Eleven Lakhs Eighty Nine Thousand Five Hundred & Thirty Only) (excluding GST) which is 14.73% Below the Estimated cost of Rs.1,31,21,787/- (excluding GST).

2. सयुक्त. महाप्रबंधक (इंजी.-विद्युत), उ.पू.क्षे. भा.वि.प्रा. लो.गो.ब.अ. हवाईअड्डा, गुवाहाटी इस कार्य के लिए प्रभारी इंजीनियर होंगे। आपसे अनुरोध है कि आप अपना प्रत्यायित प्रतिनिधि जिसे कि आपकी ओर से संविदा करार पर हस्ताक्षर करने की शक्ति दी गई है को सयुक्त. महाप्रबंधक (इंजी.-विद्युत) के कार्यालय में करार पर हस्ताक्षर करने के लिए दिनांक 14.03.2020 तक नियुक्त करें। (संविदा करार रु 100/- के नॉन ज्युडिशियल स्टाम्प पेपर पर निष्पादित किया जाएगा और स्टाम्प पेपर की लागत आपको ही वहन करनी होगी।)

Jt. General Manager (Engg.-E), AAI, NER, LGBI Airport, Guwahati, shall be the Engineer-in-charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf to attend the office of the Jt. General Manager (Engg.-E) by 14.03.2020 to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Hundred only) and the cost of the stamp paper shall be borne by you.

3. आपकी निविदा के साथ प्राप्त बयाना राशि रु.2,62,436.00 (रुपया दो लाख बासठ हजार चार सौ छत्तीस मात्र) को संविदा दस्तावेज के पृष्ठ 38 पर दी गई शर्त 1(A) के अनुसार सुरक्षा जमा के हिस्से के रूप में परिवर्तित कर दिया गया है। कृपया इस पत्र के जारी होने के 10 दिन में सुरक्षा जमा के लिए रु.8,56,517.00 (रुपया एक लाख सात हजार तीन सौ उनतीस मात्र) जमा करा दें, ऐसा नहीं करने पर संविदा दस्तावेज के पृष्ठ 38 पर दी गई खण्ड 1 (A) के अनुसार उपरोक्त राशि आपके रनिंग बिल से काट दी जाएगी।

The earnest money amount of Rs.2,62,436.00 (Rupees Two Lakhs Sixty Two Thousand Four Hundred & Thirty Six Only), received along with your tender has been converted as part of security deposit as per Clause 1(A) on page-38 of the contract document. Please deposit Rs.8,56,517.00 (Rupees Eight Lakh Fifty Six Thousand Five Hundred & Seventeen Only) towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per Tender Clause-1A on page-38 of the contract document.

4. आपसे अनुरोध है कि संविदा श्रमिक (विनियमन एवं समापन) अधिनियम 1970 और संविदा श्रमिक (विनियमन एवं समापन) केन्द्रीय नियमावली 1971 और केन्द्रीय और राज्य सरकार के न्यूनतम मजदूरी अधिनियम और नियमों का पालन करें।

You are requested to comply with the provisions of Contract Labor (Regulation and Abolition) Act of 1970 and Contract Labor (Regulation and Abolition) Central Rules 1971 and Minimum wages Act & Rules there of Central and State Governments.

क्रमशः

5. आपको निर्देश दिए जाते हैं कि, आप सहा. महाप्रबंधक (इंजी.-विद्युत), भा.वि.प्रा. लो.गो.ब.अ. हवाईअड्डा, गुवाहाटी से तत्काल सम्पर्क करें जो कि आपको कार्यस्थल सुपेर्द करने की व्यवस्था करेंगे। कृपया यह नोट करें कि काम करने का समय चार (04) महीने है जोकि कार्य आदेश देने के 10 दिन के बाद की तारीख से गिना जाएगा।

You are also directed to contact **Asstt. Gen. Manager (Engg.-E), AAI, LGBI Airport, Guwahati**, immediately who will arrange to handover the site to you. Please note that the time allowed for carrying out the work is **Four (04) Months**, which shall be reckoned from **10th day of issue of the order**.

6. दोष दायित्व अवधि के अनुबंध के कार्यों के पूरा होने की तारीख से **बारह (12) महीने** है।
Defect liability period of the contract is **TWELVE (12) MONTHS** from the date of completion of works.
7. संविदा के संबंध में आगे किया जाने वाला पत्राचार सामान्यतः **सयुक्त. महा प्रबंधक (इंजी.-विद्युत), उ.पू.क्षे. भा.वि.प्रा. लो.गो.ब.अ. हवाईअड्डा, गुवाहाटी** से किया जाए।
Any further correspondence in connection with the contract should normally be addressed to the **Jt. General Manager (Engg.-E), AAI, NER, LGBI Airport, Guwahati**.
8. कृपया पावती भिजवायें।
Please acknowledge the receipt.

Encl : Schedule A.

भवदीय / Yours faithfully,


4/3/2020
(D/P/NAUTYAL)

सयुक्त. महाप्रबंधक (इंजी.-विद्युत)
Jt. General Manager (Engg.-E),
कृते अध्यक्ष की ओर से

For and on behalf of Chairman
भारतीय विमानपत्तन प्राधिकरण, उ.पु.क्षे.
Airports Authority of India, NER.



Airports Authority of India
Elect. Engg. Wing
LGBI Airport, Guwahati-781015

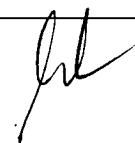
SCHEDULE OF QUANTITIES

Name of work: Relocation of LLZ & Glide path at LGBI airport Guwahati. SH: Electrical works.					
Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group B	22	Point	650.00	14300.00
2.00	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	115	Mtr.	210.00	24150.00
3.00	Wiring for light/ power plug with 4X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit alongwith 2 Nos. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	115	Mtr.	280.00	32200.00
4.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
4.01	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	25	Mtr.	120.00	3000.00
4.02	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	15	Mtr.	175.00	2625.00
4.03	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	20	Mtr.	350.00	7000.00
4.04	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	30	Mtr.	530.00	15900.00
5.00	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. 25 mm	50	Mtr.	120.00	6000.00
6.00	Supplying and drawing 2 pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	25	Mtr.	50.00	1250.00
7.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	14	Each	650.00	9100.00

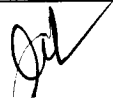
Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
8.00	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
8.01	1 or 2 Module (75mmX75mm)	2	Each	220.00	440.00
8.02	8 Module (225mmX75mm)	4	Each	425.00	1700.00
9.00	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
9.01	5/6 A switch	16	Each	140.00	2240.00
9.02	3 pin 5/6 A socket outlet	16	Each	180.00	2880.00
9.03	Telephone socket outlet	2	Each	160.00	320.00
9.04	Electronic type fan regulator	1	Each	365.00	365.00
10.00	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	4	Each	50.00	200.00
11.00	Supplying and fixing of following ways surface/ recess mounting, Horizontal 415 V, SPN/TPN MCB distribution board of sheet steel, dust protected, duly powder painted, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required.				
11.01	2+6 way SPN (pre-wired), Double door	2	Each	5500.00	11000.00
11.02	6 way TPN (8 + 18) (pre-wired), Double door	2	Each	12500.00	25000.00
12.00	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
12.01	Single pole	50	Each	225.00	11250.00
12.02	Single pole and neutral	2	Each	550.00	1100.00
13.00	Supplying and fixing following rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 A Four pole	2	Each	2500.00	5000.00
14.00	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 10 A, "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	10	Each	1600.00	16000.00
15.00	Supplying and fixing 2 way MCB metallic enclosure along with 32 A SPN MCB C series 10 KA including connections, testing and commissioning etc. as required.	8	Each	750.00	6000.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
16.00	Supply & fixing of UPVC trunking of size 100 x 50 mm along with accessories such as coupler, Elbow, Tee, internal and external bend etc. in surface complete as required.	20	Mtr.	750.00	15000.00
17.00	Supply of Surface mounted LED Batten fitting in extruded aluminium housing with diffuser and LED tube of lumen output >3420 lumens 4' long with integral electronic driver suitable for operations at 230+/-10% Volts, 50 Hz., PF>=.95 complete as required.	10	Each	3500.00	35000.00
18.00	Supply of outdoor type LED street light fixture of 25 W $\pm 10\%$ (nominal) of lumens output not less than 2375 lumens, minimum lifetime of 50000 burning hours and having aesthetically designed pressure die cast extruded aluminium/aluminium alloy housing, heat sink with general spread optics having IP-66 including accessories such as LED of approved make, electronic gear/driver with surge voltage, open/short circuit protections and power factor correction facility suitable for operation on 140 V to 280 V AC and frequency 50Hz +/-5% etc. complete as per approved makes & enclosed technical specifications.	10	Each	1750.00	17500.00
19.00	Supply of ceiling fans of approved makes of 1200mm sweep 5 star rating capacitor type complete with 60cms down rod canopies, hanging shackles, blades and speed regulator (electronic type) suitable for use on 220/240 volts 50hz single phase AC supply confirming to ISS: 374/1979 with upto date amendments (Class - I) and provide with functional insulation including wiring the down rod with 1.5 sqmm PVC insulated copper conductor single core cable etc as required.	1	Each	2500.00	2500.00
20.00	Supply of 300mm sweep, 900 rpm heavy duty exhaust fan suitable for 230/240 volts, 50hz, single phase A.C supply with all accessories including louvers, shutters etc as required.	1	Each	2800.00	2800.00
21.00	Installation, testing and commissioning of LED street light fixtures including Supplying and Fixing of 32mm dia x 1.0 mtrs long GI pipe(Medium class) bracket for mounting LED street light fitting on wall including bending the pipe in required shape, wiring with 3C x 1.5 sq. mm copper conductor cable, 2nos. 40mm x 3mm flat iron clamps with nuts and bolts and washer, painting the flat with primer and finish paint etc as required.	10	Each	550.00	5500.00
22.00	Installation, testing and commissioning of pre-wired, LED fittings of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	11	Each	50.00	550.00
23.00	Installation, testing and commissioning of ceiling fan of 1200 mm/1400 mm sizes, 5 star rating complete with down rod, canopies, hanging shackles, blades, capacitor including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	1	Each	100.00	100.00
24.00	Installation of exhaust fan upto 450mm by making suitable opening in the existing wall, including making the hole to suit the size of above fan, making good the damage, fixing luvvers and shutters, connection, testing, commissioning etc as required.	1	Each	350.00	350.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
25.00	Supply installation testing and commissioning of 1.5 TR (4500 K.Cal/hr) split type air conditioners 5 star rated with inverter type compressor, operating on refrigerant R-410 non CFC with copper tube condensor and evaporator units, cordless remote hi- wall mounting suitbale for operation on 230V 50 hz, Single pahse, A.C supply complete with filter, standard length drain & refrigerant pipe with insulation & electrical connection with wire, metallic brackets for the indoor unit & wall mounted/ floor mounted stand for outdoor units complete as required.	6	Each	45000.00	270000.00
26.00	Supply and fixing of AC Time switch in Polycarbonate enclosure with transparent front cover consisting of Astronomical time switch- 1 No., 25 A 2 Pole contactor- 1 No. , 25 A Modular changeover switch - 1 No., din rail mountable connector (32 A) for connections, interconnection complete as required.	6	Each	6000.00	36000.00
27.00	Supply and fixing of extra copper refrigerent piping beyond standard length suitable dimension for the 1.5Tr machines complete with suction / liquid line, insulation, electrical cabling, drain pipe, all the accessories as per site requirement.	12	Mtr.	600.00	7200.00
28.00	Supply installation testing and commissioning of 1 Loop microprocessor based intelligent Analogue Addressable Fire Alarm Control & Indicating Panel having the capacity to handle minimum of 99 detectors & 99 module/ devices, consisting of (i)Network card capable to connect with repeater panel (ii) 24V SMF battery having 24 Hrs backup with charger circuit (iv) 160 character LCD display module etc. as per site requirement.	1	Each	160000.00	160000.00
29.00	Supply installation testing and commissioning of Analogue Addressable Photo Electric Smoke Detector [of same protocol of FDA Panel] with mounting base as per site requirement.	6	Each	4200.00	25200.00
30.00	Supply installation testing and commissioning of Analogue Addressable Manual Call Point [of same protocol of FDA Panel] as per site requirement.	1	Each	3000.00	3000.00
31.00	Supply installation testing and commissioning of Analogue Addressable Loop powered Sounder cum strobe [of same protocol of FDA Panel] as per site requirement.	1	Each	4300.00	4300.00
32.00	Supply & fixing of auto dialer i/c programming numbers etc. complete as required.	1	Each	8500.00	8500.00
33.00	Supply and drawing of 2C x 1.5 sq mm shielded tinned PVC insulated copper cable in existing conduit as per site requirement.	50	Mtr.	90.00	4500.00
34.00	Supply and fixing of Carbon Di-oxide Fire Extinguishers of 4.5 Kg. each mounted on wall hooks as per IS 15683:2006	2	Each	5800.00	11600.00
35.00	Supply and fixing of Dry Chemical Fire Extinguishers of 5 Kg. as per IS: 15683:2006 mounted on wall hooks.	2	Each	3000.00	6000.00
36.00	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	6	Set	5500.00	33000.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
37.00	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	30	Mtr.	380.00	11400.00
38.00	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30	Mtr.	140.00	4200.00
39.00	OUTDOOR FEEDER PILLAR (At Glide Path) Design, Supply, Installation, Testing and Commissioning of outdoor type double door feeder pillar, cubicle type, made out of 2mm thick CRCA sheet steel, totally enclosed, IP-55 protection free standing, dust and vermin proof, compartmentalized, powder coated painting suitable for operation on 3 phase and neutral, 415V, 50 Hz AC system with busbars, mechanical interlocking between the incomer MCCBs & BUS coupler MCCB, interconnections complete as required and as per specifications. (to be installed outside Glide Path Hut) Incomer and Bus coupler (a) 160A, 25KA (Ics=100%Icu) thermal magnetic release type 4 Pole MCCB with suitable size Spreader terminals in both end for cable termination, Extended rotary operating mechanism and having over load and short ckt. protections - 03 Nos. (2 incomers and 1 bus coupler) (b) Multifunction meter (VAF+PF) with RS485, CI-0.5 - 02 Nos. (c) LED type indication lamps (R-Y-B) - 02 Sets. (d) Mechanical Interlocking (3 Locks & 2 keys system) - 01 set. Busbar (a) 200A, 4 strip TPN high conductivity aluminium bus bars - 01 set. Outgoings (a) 100A, 25KA (Ics=100%Icu) thermal magnetic release type 4 Pole MCCB with suitable size Spreader terminals in both end for cable termination, Direct rotary operating mechanism and having over load and short ckt. protections - 04 Nos. (b) 63A, 25KA (Ics=100%Icu) thermal magnetic release type 4 Pole MCCB with suitable size Spreader terminals in both end for cable termination, Direct rotary operating mechanism and having over load and short ckt. protections - 06 Nos. [Only PTTA Type of Feeder Pillar of approved make is acceptable]	1	JOB	198000.00	198000.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
40.00	INDOOR PANEL (UPS INPUT) Design, Supply, Installation, Testing and Commissioning of LT Panel, front openable only, cubicle type, made out of 2mm thick CRCA sheet steel, totally enclosed, IP-42 protection, wall/floor mounted, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on 3 phase and neutral, 415V, 50 Hz AC system with busbars , interconnections as of MV Panel complete as required and as per specifications. (1 each to be installed at Glide Path and Localizer) Incomer (a) 100A, 25KA (Ics=100%Icu) thermal magnetic release type 4 Pole MCCB with suitable size Spreader terminals in both end for cable termination, Extended rotary operating mechanism and having over load and short ckt. protections - 02 Nos. (b) 125A, 4 Pole motorised automatic transfer switch open execution type along with controller with wire harness and suitable for operation on 440V, 50Hz, AC supply - 01 No. (c) Multifunction meter with RS485, CI-0.5 - 02 Nos. (d) LED type indication lamps (R-Y-B) - 03 Sets. Busbar (a) 200A, 4 strip TPN high conductivity Copper bus bars - 01 set. Outgoings (a) 63A, 10KA, 4 pole C curve MCB - 04 Nos. (b) 32A, 10KA, 2 pole C curve MCB - 06 Nos. (c) Single Phase Class B SPD having 100 KA capacity, 10/350 micro sec pulse response with Voltage protection level <1.5 kV - 2 Nos. (As per specification enclosed) d) Space for 1 no. Data logger [Only PTTA Type of Panel approved make is Acceptable]	2	JOB	199000.00	398000.00

Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
41.00	UPS OUTPUT PANEL Design, Supply, Installation, Testing and Commissioning of UPS Panel, front openable only, cubicle type, made out of 2mm thick CRCA sheet steel, totally enclosed, IP-42 protection, wall / floor mounted, dust and vermin proof, indoor, compartmentalized, powder coated painting suitable for operation on single phase and neutral, 230V, 50 Hz AC system with connectors, interconnections complete as required and as per specifications. (1 each to be installed at Glide Path and Localizer) (a) 40 A, 10 KA 2 Pole, 'C' Curve MCB as incomer - 1 No. (b) 32 A, 10 kA, 2 Pole 'C' curve MCB as outgoing - 4 Nos. (c) 40 A, 2 Pole dinrai mountable modular chargeover switch - 1 No. (d) 32 Amps, Singe Phase Class 'C' SPD with in built Series filter having multistage modular MOV and as per specifications enclosed. - 1 No. [Only PTTA Type of Panel of approved make is acceptable]	2	JOB	155000.00	310000.00
42.00	Supply and installation of Data logger for energy monitoring such as harmonics in power supply, power failure events/history, energy graph etc on existing power supply panels complete as required. (Siemens Model No. 7KM2111-1BA00 3AA00 or similar equivalent)	2	Each	48000.00	96000.00
43.00	Transportation/ shifting of HT/LT/OFC Cable drum of various sizes from AAI store to operational area by engaging manpower with machinery such as Hydra/ JCB/ Crain/ Truck by taking proper care of cable from any damage during transportation including arranging airport entry passes for vehicles and staff, loading & unloading at site upto a distance of 4km as required.	10	Job	2000.00	20000.00
44.00	Supply of 50mm dia (outer) permanantly lubricated HDPE (High Density Polyethylene) telecom duct conforming to BSNL TESEC specification with latest amendments	5200	Mtr.	65.00	338000.00
45.00	Laying of 50 mm dia following size of permanently lubricated HDPE (high density polyethylene) pipe alongwith its necessary accessories like coupler, end plugs, rope, cable sealent etc. below the ground (i/c Road crossing, runway crossings, Cement concrete, Apron Area) at a depth of up to 4 m through HDD method including duct integrity test for continuity as per site requirement and as per specification.	4800	Mtr.	380.00	1824000.00
46.00	Laying of single run 12 core armoured OFC cable through pulling blowing in 50 mm dia size existing HDPE pipe complete as per specifications as required.	5000	Mtr.	15.00	75000.00
47.00	Laying and fixing of one 50 mm dia permanently lubricated HDPE pipe on cable tray/ surface as required.	200	Mtr.	20.00	4000.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
48.00	Supply, installation, testing and commissioning of Optical Fibre Cable Joint closure including splicing of Optic Fibre Cable (12 Fibres) and testing of fibres conforming to technical specification, checking of continuity submission of report complete as required. etc as required.	3	Each	7000.00	21000.00
49.00	Supply, installation, testing and commissioning of 24 Port LIU (Patch panel) for Optical Fibre cable Rack mountable/ Wall mountable(outdoor application) complete with splice tray, cable spool, Duplex Adaptor Module panel, Adaptor SC Duplex, SC Duplex Pigtail 1 meter. Job include splicing of core, fixing, testing etc complete as per satisfaction of Engg. -In-Charge. (Make: Schneider or eqv)	4	Each	14000.00	56000.00
50.00	Supplying and making cable route marker with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) of size 60 cm X 60 cm at the bottom and 50 cm X 50 cm at the top with a thickness of 10cm including inscription duly engraved as required. (For OFC and HT/LT power cable)	69	Each	850.00	58650.00
51.00	Constructing brick masonry chamber of size 1000mm x 1000mm x 1000mm in cement mortar 1:4 (1 cement : 4 coarse sand) having base PCC foundation 1:4:8 (1 Cement : 4 Coarse Sand : 8 graded stone aggregate) with plastering of walls including excavation of existing surface etc complete as required. (Without Cover)	13	Each	7000.00	91000.00
52.00	Constructing brick masonry chamber of size 500mm x 500mm x 500mm in cement mortar 1:4 (1 cement : 4 coarse sand) having base PCC foundation 1:4:8 (1 Cement : 4 Coarse Sand : 8 graded stone aggregate) with plastering of walls including excavation of existing hard/concrete surface etc complete as required. (Without Cover)	4	Each	4000.00	16000.00
53.00	Steel work welded in built up section / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer and one coat of synthetic enamelblack paint using structural steel sections [65 mm x 65 mm x 6 mm MS Angle Iron (Frame for Manhole chamber)	348	kg	90.00	31320.00
54.00	Steel work welded in built up section / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer and synthetic enamel black paint using structural steel etc. (10 mm thick MS Sheet). (Cover for Manhole chamber)	1177.5	kg	80.00	94200.00
55.00	Supply of 3C x 95 Sqmm. size 11 KV(UE) grade, PVC insulated and PVC sheathed Aluminium conductor armoured XLPE power cable generally confirming to IS 7098 Part II - 1988 with up to date amendments as required.	3700	Mtr.	680.00	2516000.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
56.00	Supply of following size LT power cable of 1.1 KV grade aluminium conductor XLPE insulated PVC sheathed armoured cable confirming to IS 7098 Part I-1988 with upto date amendment as required.				
56.01	3.5C x 185 sq. mm.	1500	Mtr.	610.00	915000.00
56.02	3.5C x 50 sq. mm.	500	Mtr.	185.00	92500.00
56.03	4 C x 35 Sqmm.	100	Mtr.	160.00	16000.00
57.00	Supply of 110mm dia (O.D.) HDPE (High Density Polyethylene) duct of grade PE80, PN6 ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 4984:1995 with latest ammendments complete as required.	450	Mtr.	650.00	292500.00
58.00	Laying of 110 mm dia (O.D) HDPE (High Density Polyethylene) duct direct in ground up to a depth of 50 cm under hard/concrere/bituminous surface including groove cutting, getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 metres. Further, refilling the groove with cement concrete 1:3:6(1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) after laying the pipe complete with fitting, cutting and jointing etc. as required and finishing the top surcace matching to existing surfaces i/c curing etc. complete as required.	115	Mtr.	430.00	49450.00
59.00	Laying of 110mm dia HDPE (high density polyethylene) pipe alongwith all accessories like coupler, socket, bend etc. below the ground (i/c Road crossing, runway/ taxi crossings, Cement concrete Apron Area) at a depth of not less than 1.0 mtr through HDD method including duct integrity test for continuity as per site requirement and as per specifications complete as required.	320	Mtr.	800.00	256000.00
60.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of size Upto 120 sq. mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	3000	Mtr.	340.00	1020000.00
61.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of size Upto 120 sq. mm in the existing RCC/HUME/ METAL pipe as required.	350	Mtr.	20.00	7000.00
62.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 kV grade of size Upto 120 sq. mm in the existing masonry open duct as required.	70	Mtr.	15.00	1050.00



Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
63.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
63.01	Upto 35 Sqmm.	100	Mtr.	280.00	28000.00
63.02	Above 35 sq. mm and upto 95 sq. mm	220	Mtr.	310.00	68200.00
63.03	Above 95 sq. mm and upto 185 sq. mm	1040	Mtr.	310.00	322400.00
64.00	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.				
64.01	Above 35 sq. mm and upto 95 sq. mm	30	Mtr.	15.00	450.00
64.02	Above 95 sq. mm and upto 185 sq. mm	150	Mtr.	20.00	3000.00
65.00	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.				
65.01	Above 35 sq. mm and upto 95 sq. mm	30	Mtr.	15.00	450.00
65.02	Above 95 sq. mm and upto 185 sq. mm	70	Mtr.	20.00	1400.00
66.00	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. Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp)	120	Mtr.	80.00	9600.00
67.00	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. Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	30	Mtr.	90.00	2700.00
68.00	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray cable tray with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc as required. 300 mm width X 50 mm depth X 1.6 mm thickness	15	Mtr.	750.00	11250.00
69.00	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for 3C X 95 sqmm. , XLPE aluminium conductor cable of 11 kV grade as required.	6	Each	18000.00	108000.00
70.00	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 3C X 95 sqmm., XLPE aluminium conductor cable of 11 kV grade as required.	5	Each	8000.00	40000.00

Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
71.00	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.				
71.01	4 C x 35 Sqmm.	2	Each	1500.00	3000.00
71.02	3.5 C x 50 Sqmm.	2	Each	1900.00	3800.00
71.03	3.5C x 185 sq. mm.	3	Each	2300.00	6900.00
72.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.				
72.01	3.5 x 185 sq.mm.	2	Each	650.00	1300.00
72.02	3.5 x 70 sq.mm.	2	Each	350.00	700.00
72.03	3.5 x 50 sq.mm.	10	Each	290.00	2900.00
72.04	4 x 35 sq.mm.	2	Each	220.00	440.00
72.05	4 x 10 sq.mm.	2	Each	195.00	390.00
73.00	Supply of C.I isolating transformer housing box, water tight round type, metal container of outside size 330 mm height 450 mm made of 10 mm thick cast iron moulding all round, except the top surface, which is 15 mm thick, cast iron moulding suitable to receive a light fitting base plate on the top and underground housing associated with transformer, power cable and having two clear holes on sides surfaces at 180 center 75 mm above bottom surface suitable to receive of 50 mm dia(outer dia) HDPE/G.I pipe and including checks and nuts as required and another hole at 175 mm from the bottom of the CI box to receive one no.15 mm dia "B" class GI pipe and check and nut as required. The box should have two SS earth bolts of M10 X 30mm tapped inside near the hole away from the hole center and having a drain hole at the bottom suitable tapped to receive 15 mm dia"B" class GI pipe and having clear opening of 220 mm at the top surface and 6 nos.M10 tapped hole at the hole center 260 mmm to receive fitting base plate and bolts and conforming to technical specifications, terms and conditions etc. as specified in tender document complete as required.	12	Each	4000.00	48000.00
74.00	Supply of 200 watt,6.6A/6.6A, 5000V, 50 Hz individual lamp series type Isolating Trasnformer suitable for PAPI lamp encapsulated in polyester resin & finally molded in neoprene rubber with primary and secondary connection leads confirming to technical specifications, terms & conditions etc. as specified in tender document complete as required.	12	Each	4000.00	48000.00



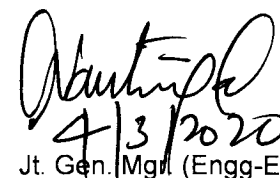
Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
75.00	Supply of 3 lamps PAPI unit with breakable couplings, legs, connecting secondary leads, base plates, all required hardware i/c supply of lamps and confirming to technical specifications, terms & conditions etc. as specified in tender document complete as required.	4	set	180000.00	720000.00
76.00	Supply of 5 KV grade ESNA connector and suitable for field attachment with 5KV grade PVC insulated ,PVC Shethed single core 6 sq mm copper conductor cable confirming to technical specifications etc. as required.	12	Set	380.00	4560.00
77.00	Installation of transformer housing boxes with a base concrete of 1:3:6 of size 630 x 630 x 100 mm thick all round concrete of 1:2:4 150 mm thick the top sloped with 1:2:4 cement including providing and fixing 250 mm long 15 mm dia "B" Class GI pipe with check nut for drainage of water including excavation of hard/soft soil and refilling etc complete as required.	12	Each	1750.00	21000.00
78.00	Installation of 04 Nos. 3 lamp PAPI unit (01 job) with base plates & positioning of checking sticks (as mentioned in item no.74 & 75), supply of all required materials, providing civil foundations for pedestal, PCC pedestal up to 1m all around the complete PAPI installtion with 1:2:4 cement concrete of 100 mm thick , supply, crimping & moulding of secondary leads, connections/inter-connections with isolating transformers complete as per site rquirements i/c testing , commissioning and confirming to technical specifications, terms & conditions etc complete as required.	1	JOB	40000.00	40000.00
79.00	Making connections of 5 KV grade, 6 sq mm Copper conductor AFL cables with ESNA connector i/c crimping & fixing , applying HT tape complete as required.	12	set	250.00	3000.00
80.00	Laying of one number PVC insulated and PVC shethed/XLPE power cable of 5 KV grade of 6 sqmm size in the existing RCC/GI/HUME/METAL pipe etc as required.	60	Mtr.	10.00	600.00
81.00	Dismantaling of existing PAPI units from its existing location without damaging the components and handing over the same to AAI Store.	4	Each	500.00	2000.00
82.00	Supply and installation of 5 mm thick 330 mm dia size round type M.S. base plate on top of the transformer housing box having 6 Nos M10 holes at the hole center of 260 mm, 15 mm dia hole at the center of the base plate dully painted with anti corrosive paint and with 6 Nos of M10 SS bolts.	12	Each	800.00	9600.00
83.00	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	60	Mtr.	30.00	1800.00
84.00	S/L of Earth connection from earth electrode with 6 SWG GI wire in 15 mm dia G.I pipe (Class-B) etc. as required.	40	Mtr.	180.00	7200.00

Sl. No.	Description of Items	Qty.	Unit	Rate	Amount
85.00	Laying of 50 mm dia (OD) HDPE pipe alongwith all accessories direct in ground upto a depth of 75 cm including excavation of trench and back filling of excavated earth after laying of pipe complete as required.	60	Mtr.	150.00	9000.00

11189530.00

(Rupees One Crore Eleven Lakhs Eighty Nine Thousands Five Hundred & Thirty Only)

Note: Rates are excluding GST, which shall be applicable as per prevailing rate.


4/3/2020
Jt. Gen. Mgr. (Engg-E)

AAI, NER, LGBI Airport, Guwahati-15

Signature Not Verified

Digitally signed by TAPAN KUMAR BALA
Date: 2020.03.18 10:34:04 IST
Location: eProcurement System for Central PSUs

