



संख्या:-भा0वि0प्रा0/वारा0/उप0म0प्र0अभि0(विद्युत)/W-06/सबस्टेशन हास्पिटल/ 2020-21/6804-13 दिनांक: 01.01.2021
Ref :- AAI / VNS / DGM Engg.(E) /W-06/ Substation Hospital / 2020-21 / Date: 01.01.2021

सेवा में,

मेसर्स अनिल कुमार सिंह,
एच.नं0-91सी, प्रताप नगर (चिलमापुर),
गोरखपुर, (यूपी.)-273016.

To,

M/s Anil Kumar Singh,
H. No.- 91C, Pratap Nagar (Chilmapur),
Gorakhpur, (U.P.)-273016.

कार्य का नाम:-कन्स्ट्रक्शन ऑफ 6 हाई डेपेन्डेन्सी यूनिट्स (HDU) एण्ड 2 इन्टेन्सिव केयर यूनिट्स (ICU) हास्पिटल नियर एल.बी.एस.आई.एयरपोर्ट वाराणसी।

उप-शीर्ष:-प्रोविजन ऑफ सबस्टेशन इक्विपमेंट्स एण्ड एसोसिएटेड वर्कस् ईटीसी।

Name of work:-"Construction of 6 High Dependency Units (HDU) and 2 Intensive Care Units (ICU) Hospital near LBSI Airport Varanasi.

SH:- Provision of Sub Station equipments & associated works etc."

संदर्भ:-ई-निविदा (2020_AAI_62190_1) खोलने का दिनांक: 04.12.2020

Ref:- Your Tender ID (2020_AAI_62190_1) opened on dt.: 04.12.2020

प्रिय महोदय, Dear Sir,

- उपरोक्त कार्य के लिए रुपये 62,89,864.00 (जीएसटी छोड़कर)(रुपये बासठ लाख नवासी हजार आठ सौ चौसठ मात्र) की मद दर निविदा, जो कि कार्य की (न्याय संगत) लागत रुपये 70,13,074.00 (जीएसटी छोड़कर) (रुपये सत्तर लाख तेरह हजार चौहत्तर मात्र) से 10.31% (दस दशमलव तीन एक प्रतिशत) कम है, आपके द्वारा निविदा प्रपत्र में दर्शायी गयी मद दरों पर भरी गई है, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है।
- Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you, totaling to Rs. 62,89,864.00 (excluding GST) (Rupees Sixty Two Lacs Eighty Nine Thousand Eight Hundred & Sixty Four Only) which is 10.31% (Ten Point Three One Percent) below the justified cost of Rs. 70,13,074.00 (excluding GST) (Rupees Seventy Lacs Thirteen Thousand Seventy Four Only)
- उप महाप्रबन्धक (अभि0-वि0) भा.वि.प्रा.,लाल बहादुर शास्त्री अन्तरराष्ट्रीय हवाई अड्डा, वाराणसी इस कार्य के कार्य प्रभारी अभियन्ता होंगे तथा वरि0 प्रबन्धक (अभि0-वि0)/प्रबन्धक (अभि0-वि0). उनके प्राधिकृत प्रतिनिधि होंगे। आपसे अनुरोध है कि दिनांक 11 जनवरी 2021 तक उप महाप्रबन्धक (अभि0-वि0), के कार्यालय में उपस्थित होकर संविदा अनुबन्ध को हस्ताक्षरित कर पूर्ण करें। अनुबन्ध 100/-रुपये के गैर न्यायिक स्टाम्प पेपर पर सम्पादित किया जाएगा, स्टाम्प पेपर की कीमत आपके द्वारा वहन की जाएगी।
- Dy. General Manager (Engg.-E) AAI, LBSI Airport, Varanasi shall be the Engineer-in-charge of the work and Sr. Manager (Engg.-E) / Manager (Engg.-E), shall be the authorized representative of Engineer-in- charge. You are requested to attend the office of Dy. General Manager (Engg.-E) AAI, LBSI Airport, Varanasi by 11.01.2021 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.100.00 (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.

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3. निविदा के साथ प्राप्त धरोहर राशि रुपये **1,39,977.00** (रुपये एक लाख उन्तालीस हजार नौ सौ सतहत्तर मात्र) प्रतिभूति निक्षेप राशि का हिस्सा मानकर उसमें बदल दिया जाएगा। कृपया शेष प्रतिभूति निक्षेप राशि **रुपया 4,89,009.00** (रुपये चार लाख नवासी हजार नौ मात्र) इस पत्र के निर्गत दिनांक से दस दिनों के भीतर जमा करें अन्यथा उक्त धनराशि की कटौती संविदा प्रपत्र की पृष्ठ संख्या 16 के शर्त संख्या 1 ए के अनुसार चालू लेखा बिलो से की जाएगी।
3. The earnest money amount of **Rs.1,39,977.00** (Rupees One Lacs Thirty Nine Thousand Nine Hundred Seventy Seven Only) received along with your tender will be treated and converted as a part of Security Deposit. Please deposit **Rs. 4,89,009.00** (Rupees Four Lacs Eighty Nine Thousand Nine Only) towards balance Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bill as per conditions of clause no. 1A on page 16 of Clause of Contract of contract document.
4. आपसे अनुरोध है कि संविदा श्रमिक प्रावधान (विनियम एवं उन्मूलन) एक्ट 1970, श्रमिक प्रावधान (विनियम एवं उन्मूलन)-केन्द्रीय नियम 1971, न्यूनतम मजदूरी अधिनियम एवं इस सम्बन्ध में केन्द्र/राज्य सरकार के नियमों का पालन करना सुनिश्चित करें।
4. You are requested to comply with the provisions of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central rules 1971 and minimum wages act and rules there of Central and State Governments with upto date amendments.
5. आपको निर्देशित किया जाता है कि आप तुरन्त प्रभाव से वरि० प्रबन्धक (अभि०-वि०) भा.वि.प्रा.,लाल बहादुर शास्त्री अन्तरराष्ट्रीय हवाई अड्डा, वाराणसी / प्रबन्धक (अभि०-वि०), भा.वि.प्रा.,लाल बहादुर शास्त्री अन्तरराष्ट्रीय हवाई अड्डा, वाराणसी से सम्पर्क करें जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे।
5. You are also directed to contact Sr. Manager (Engg.-E) AAI, LBSI Airport, Varanasi / Manager (Engg.-E),AAI, LBSI Airport, Varanasi, immediately who will arrange to hand over the site to you.
6. कृपया ध्यान दें कि कार्य पूर्ण करने की अवधि तीन माह है जो कि इस पत्र के जारी होने की तिथि के बाद 10 वें दिन से प्रभावी मानी जाएगी।
6. Please note that the time period allowed for carrying out the work is **03 months** and the same shall be reckoned from 10th day after the date of issue of this letter.
7. संविदा के सन्दर्भ में किसी भी प्रकार का पत्राचार सामान्यतः उप० महाप्रबन्धक (अभि०-वि०), भा.वि.प्रा., लाल बहादुर शास्त्री अन्तरराष्ट्रीय हवाई अड्डा, वाराणसी को सम्बोधित करें।
7. Any further correspondence in connection with the contract should normally be addressed to the Dy. General Manager (Engg.-E), AAI, Lal Bahadur Shastri International Airport, Varanasi.
8. कृपया इस पत्र की पावती भेजें एवं पत्र कि प्रतिलिपि जो कि संलग्न है को हस्ताक्षरित कर अधोहस्ताक्षरी को स्वीकृत चिन्ह के रूप में वापस करें।
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.

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9. उपरोक्त के हिन्दी पाठ में कोई अन्तर या द्विधार्थकता होने की स्थिति में अंग्रेजी पाठ मान्य होगा।
9. In case of difference or ambiguity in Hindi and English version, the English version will prevail.

धन्यवाद।

संलग्नक- यथोपरि और SOQ

Encl:- As above & SOQ

भवदीय

-sd-

उप महाप्रबंधक (अभि०-विद्युत)
Dy. General Manager (Engg.-E)
भा० वि० प्रा० एल०बी०एस०आई०, हवाई अड्डा वाराणसी
AAI, LBSI, Airport, Varanasi
अध्यक्ष भा० वि० प्रा० के लिए व उनकी तरफ से
For and on behalf of the chairman, AAI

प्रतिलिपि/ Copy to:

मूल प्रति पर नहीं (NOO)

बाहरी/ External:

1. महाप्रबंधक (अभि०), उ०क्षे०, भा० वि० प्रा०, परिचालन कार्यालय गुडगाँव रोड, नई दिल्ली।
General Manager (Engg.), NR, AAI, Operational Offices Gurgaon Road, New Delhi
2. सहा० श्रम आयुक्त 189 ए/4 अलोपीबाग इलाहाबाद।
Asstt. Labour Commissioner, 189 A/4 Alopibagh Allahabad.

आंतरिक/ Internal:

1. विमानपत्तन निदेशक भा० वि० प्रा० एल०बी०एस०आई०, हवाई अड्डा वाराणसी
Airport Director, AAI, LBSI, Airport, Varanasi
2. संयुक्त महाप्रबंधक अभि० (सिविल), भा० वि० प्रा० एल०बी०एस०आई०, हवाई अड्डा वाराणसी
Jt. GM Engg. (Civil), AAI, LBSI, Airport, Varanasi
3. वरिष्ठ प्रबंधक अभि. (वि०) भा० वि० प्रा० एल०बी०एस०आई०, हवाई अड्डा वाराणसी
Sr. Manager (E-E), AAI, LBSI, Airport, Varanasi
4. प्रबंधक (वित्त) भा० वि० प्रा० एल०बी०एस०आई०, हवाई अड्डा वाराणसी
Manager (Fin.), AAI, LBSI, Airport, Varanasi.
5. प्रबंधक अभि० (वि०) भा० वि० प्रा०, एल०बी०एस०आई०, हवाई अड्डा वाराणसी
Manager (E-E), AAI, LBSI, Airport, Varanasi.
6. करार प्रतिलिपि
Agreement Copy
7. सम्बन्धित फाइल
Concerned file

ईमेल
के जरिए

उप महाप्रबंधक (अभि०-विद्युत)
Dy. General Manager (Engg.-E)



**AIRPORTS AUTHORITY OF INDIA
ENGINEERING WING (E)
LBSI AIRPORT, VARANASI
SCHEDULE OF QUANTITY**

Name of work:- Construction of 6 High Dependency Units (HDU) and 2 Intensive Care Units (ICU) Hospital near LBSI Airport Varanasi. (SH:Provision of Sub Station equipments & associated works etc.)

S.No.	Description of Item	Unit	Qty	Rate	Amount
1	Supply ,installation,testing and commissioning of indoor type LT panel (PTTA), made out of 2 mm CRCA sheet steel, totally enclosed, minimum IP 42 protection, free standing, floor mounting, dust and vermin proof ,compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply system with busbars extensible on both sides, interconnections with suitable size of copper lead/ solid aluminium strips, control circuit with breaker control switch , digital type ammeter and voltmeter,LED type indicating lamps, CT's as required, suitable electrical and mechanical interlocking as required between incomers and bus couplers , Incomer and outgoing should be of four pole MCCB with rotary handle, panel should have continuous GI earth strip of suitable size throughout the length of panel with earth terminations at both the ends ,cable alleys suitable for bottom or top entry of cables as required including supply & installation of all items as below and as per detailed specifications. Works includes loading & unloading, Positioning,Testing, Commissioning of panel & necessary minor civil works e.g. providing C-C channel etc. complete as per site requirement and as per Instruction of E-I-C. INCOMERS:250 A,4P, 35 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -1 Nos. OUTGOINGS:125 A,4P, 25 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -2 Nos. 63 A,4P, 25 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -8 Nos. 32 A,4P, 25 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -3 Nos. 1 Lot of control wiring & 1 Set of designation plates. Multifunction Meter: Digital Multifunction Meter with all normal electrical parameter (V,A,f) i/c KWh & MD etc.-01 No Indicating lamp : RYB,ON/OFF/TRIP LED type Indicating Lamps for all Incomers & Outgoings. - 01 set BUS BARS: Suitable size TPN Aluminium bus bar but not less than 300 Amps.	Each	1.00	226700.00	226700.00
2	Supply ,installation,testing and commissioning of indoor type LT panel (TTA), made out of 2 mm CRCA sheet steel, totally enclosed, minimum IP 42 protection, free standing, floor mounting, dust and vermin proof ,compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply system with busbars extensible on both sides, interconnections with suitable size of copper lead/ solid aluminium strips, control circuit with breaker control switch , digital type ammeter and voltmeter,LED type indicating lamps, CT's as required, suitable electrical and mechanical interlocking as required between incomers and bus couplers , Incomer and outgoing should be of four pole MCCB with rotary handle, panel should have continuous GI earth strip of suitable size throughout the length of panel with earth terminations at both the ends ,cable alleys suitable for bottom or top entry of cables as required including supply & installation of all items as below and as per detailed specifications. Works includes loading & unloading, Positioning,Testing, Commissioning of panel & necessary minor civil works e.g. providing C-C channel etc. complete as per site requirement and as per Instruction of E-I-C. INCOMERS:320 A,4P, 36 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -1 Nos. OUTGOINGS:250 A,4P, 36 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -1 Nos. 63 A,4P, 25 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -2 Nos. 32 A,4P, 25 kA,MCCB with thermal magnetic release O/L , S/C (Ics=Icu=100 %) -2 Nos. 1 Lot of control wiring & 1 Set of designation plates. Multifunction Meter: Digital Multifunction Meter with all normal electrical parameter (V,A,f) i/c KWh & MD etc.-01 No Indicating lamp : RYB,ON/OFF/TRIP LED type Indicating Lamps for all Incomers & Outgoings. - 01 set BUS BARS: Suitable size TPN Aluminium bus bar but not less than 400 Amps.	Each	1.00	240900.00	240900.00

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S.No.	Description of Item	Unit	Qty	Rate	Amount
3	Supply ,installation,testing and commissiong of 250 KVA ,11KV/433Volt,3 phase ,50 Hz ,Dyn 11,outdoor ONAN type,copper wound transformer with off load tap changing arrangement with taping +5% to -10% in steps of 2.5%, having cable end boxes on HV side suitable for 11kv grade arrangement and XPLE aluminium armoured cable on LV side complete with all accessories i/c first fill of filtered dehydrated oil and confirming to IS 1180 (Level-2) with up to date amendments & as per specification attached complete in all respects as required at site.	Each	1.00	561400.00	561400.00
4	11 KV H.T. (I/C-01 No. & O/G- 01 No.) BREAKER SWITCH BOARD PANEL SITC of indoor cubicle type floor mounted metal clad 11KV VCB Panel Board with 11 KV, 350MVA , 630A, HT VCB (One incomer & One outgoing VCB),totally enclosed & fully interlocked, horizontal draw out, horizontal / vertical Isolation type breaker as per IEC 62271-100 for breaker & 62271-200 for panels and of capacity as mentioned below, single break, trip free mechanism, motor / manually charged and auto / manual closing breaker suitable for use on 11KV 3 phase 50 Hz AC supply complete with self contained, fully interlocked, rack in and rackout mechanism, air insulated but encapsulated copper bus bars of 630 Amp capacity, Breaker featured with mechanical ON/OFF indication with hand trip device,DC power pack, spring released coil, shunt trip coil and auxiliary switches and equipped with switchgears mentioned below. Panel Board shall be provided with Earthing trolley for incoming side / Busbar / outgoing breakers earthing, Panel Board shall be fabricated, made out of 2 mm thick CRCA sheet steel, totally enclosed, IP 4X, free standing, floor mounting, dust and vermin proof, indoor, compartmentalized, powder coated painting including internally wired / interconnected with suitable provision for end termination with heat shrinkable jointing material etc as required (Note cost of end termination not included in this item) (VCBs shall be SCADA compatible & shall have feature for control & monitoring by SCADA system/ BMS in future.(Cost of SCADA system not included in this item). Incomer (a) 630A,Minimum18.3kA, 11KV, 3 phase, 50 Hz Vacuum Circuit Breaker(VCB),Icu=Ics=Icw=100% and withstand capacity of 3 seconds -1 No. (b) 3 phase 11 KV/110 V Volts PT, class 1.0 accuracy and 100 VA burden with 1 No Voltmeter (0-15 KV), Digital type, selector switch for voltmeter and protection fuses for HT metering upto 15 KV on incomer (Voltmeter shall have communication features for monitoring by BMS) - 1set (c) 3 CTs 30/5A of 15 VA burden and accuracy class 1.0 for metering and class 5P10 for protection-1 set (d) Multi function meter to display F, PF, kW, kVA, kVAR, kWh, kVAh, kVARh, THD, Phase angles, Power demand parameters, suitable for operation on 110V a.c supply, with RS-485 interface for integration to BMS- 1 No (e) Microprocessor based numerical relay for Over current and Earth fault protection -1 No. (f) 0-50 Amps Ammeter, digital type with selector switch for ammeters. (ammeter shall have communication features for monitoring by BMS) -1 No. (g) Phase indicating lamps with HRC fuses/MCB-1 Set (h) Indicating lamps to indicate OPEN, CLOSE, TRIP, SPRING CHARGED, TRIP CIRCUIT HEALTHY-1 set (i) 630 Amps TP Copper Busbar-1 set (j) Test terminal block-1 No (k) Copper bus bar of suitable size for earthing-1 set (l) Master trip relay & trip circuit healthy supervision relay.-1 set (m) Provision for padlocking the incomer VCBs in 'OFF' position.-1 No. Outgoing (a) 630A,Minimum 18.3kA, 11KV, 3 phase, 50 Hz Vacuum Circuit Breaker(VCB),Icu=Ics=Icw=100% and withstand capacity of 3 seconds -1 No. (b) 3 CTs 30/5A of 15 VA burden and accuracy class 1.0 for metering and class 5P10 for protection - 1 Set. (c) Microprocessor based numerical relay for O/C and E/F protection- 1 No (d) 0-50 Amp, digital type ammeter with selector switch (ammeter shall have communication features for monitoring by BMS)- 1 No. (e) indicating lamps to indicate OPEN, CLOSE, TRIP, SPRING CHARGED, TRIP CIRCUIT HEALTHY- 1 set (f) Master trip relay & trip circuit healthy supervision relay-1 set (h) Protection arrangements with necessary auxiliary relays for connecting the WTI of Transformer- 1 set (g) Annunciator (having minimum 8 windows) and alarm bell/ hooter - 1 No. NOTE:- All metering and protection devices, interconnections, necessary control wiring and all other accessories shall be provided as per SLD or as required as per specifications and technical particulars and as per instruction of E-I-C.	Each	1.00	879509.00	879509.00
5	Supply of 11 KV grade (11 KV Earthed System) XLPE insulated , PVC sheathed, Aluminium Conductor,Armoured Power cable of size 3X70 sq mm, Conforming to IS: 7098 (Part - II) amended upto date.	Mtr.	170.00	700.00	119000.00
6	Supply of 4 x 10 sq.mm XLPE insulated & PVC sheathed armoured aluminium conductor cable of , 1.1KV grade conforming to I.S : 7098 (Part-I) with upto date ammendments.	Mtr.	280.00	120.00	33600.00
7	Supply of 4 x 25 sq.mm XLPE insulated & PVC sheathed armoured aluminium conductor cable of , 1.1KV grade conforming to I.S : 7098 (Part-I) with upto date ammendments.	Mtr.	150.00	200.00	30000.00
8	Supply of 3.5 x 35 sq.mm XLPE insulated & PVC sheathed armoured aluminium conductor cable of , 1.1KV grade conforming to I.S : 7098 (Part-I) with upto date ammendments.	Mtr.	400.00	230.00	92000.00
9	Supply of 3.5 x 95 sq.mm XLPE insulated & PVC sheathed armoured aluminium conductor cable of , 1.1KV grade conforming to I.S : 7098 (Part-I) with upto date ammendments.	Mtr.	140.00	475.00	66500.00
10	Supply of 3.5 x 120 sq.mm XLPE insulated & PVC sheathed armoured aluminium conductor cable of , 1.1KV grade conforming to I.S : 7098 (Part-I) with upto date ammendments.	Mtr.	80.00	600.00	48000.00
11	Supply of 40 mm outer dia PN-6, PE80, ISI Marked HDPE Pipe conforming to IS 4984:2016 with up to date ammendments complete as required.	Mtr.	275.00	80.00	22000.00

S.No.	Description of Item	Unit	Qty	Rate	Amount
12	Supply of 63 mm outer dia PN-6, PE80, ISI Marked HDPE Pipe conforming to IS 4984:2016 with up to date ammendments complete as required.	Mtr.	400.00	150.00	60000.00
13	Supply of 110 mm outer dia PN-6, PE80, ISI Marked HDPE Pipe conforming to IS 4984:2016 with up to date ammendments complete as required.	Meter	390.00	410.00	159900.00
14	Laying of 40/63mm dia HDPE/MS Pipe direct in under ground at depth of 75 cm below ground level including soil excavation and refilling the trench etc. as required.	Meter	675.00	120.00	81000.00
15	Laying of 110 mm dia HDPE/MS Pipe direct in under ground at depth of 75 cm below ground level including soil excavation and refilling the trench etc. as required.	Meter	220.00	120.00	26400.00
16	Laying of 110 mm dia HDPE/MS Pipe direct in under ground at depth of 120 cm below ground level including soil excavation and refilling the trench etc. as required.	Meter	170.00	190.00	32300.00
17	Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade cable of size upto 35 sq mm in the existing RCC/ HUME/ METAL / HDPE pipe as required.	Meter	675.00	30.00	20250.00
18	Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade cable of size above 35 sq mm and upto 95 sq mm in the existing RCC/ HUME/ METAL / HDPE pipe as required.	Meter	310.00	50.00	15500.00
19	Laying of one number PVC insulated and PVC sheathed XLPE power cable of 1.1 kV grade cable of size above 95 sq mm and upto 185 sq mm in the existing RCC/ HUME/ METAL / HDPE pipe as required.	Meter	80.00	60.00	4800.00
20	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade Upto 35 sq. mm (clamped with 1mm thick saddle) on wall surface as required.	Meter	155.00	35.00	5425.00
21	Supplying and making end termination with brass compression gland and aluminium lugs for 4X10 Sqmm XLPE armoured aluminium conductor cable of 1.1 KVgrade as required.	Each	14.00	200.00	2800.00
22	Supplying and making end termination with brass compression gland and aluminium lugs for 4X25 Sqmm XLPE armoured aluminium conductor cable of 1.1 KVgrade as required.	Each	4.00	220.00	880.00
23	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5X35 Sqmm XLPE armoured aluminium conductor cable of 1.1 KVgrade as required.	Each	2.00	260.00	520.00
24	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5X95 Sqmm XLPE armoured aluminium conductor cable of 1.1 KVgrade as required.	Each	12.00	400.00	4800.00
25	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5X120 Sqmm XLPE armoured aluminium conductor cable of 1.1 KVgrade as required.	Each	2.00	410.00	820.00
26	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for 3.5 X 120 sq. mm of PVC insulated and PVC sheathed /XLPE aluminium conductor cable of 1.1 KV grade as required.	Each	2.00	1380.00	2760.00
27	Supplying and making outdoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 70 sq mm of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.	Each	2.00	11250.00	22500.00
28	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for 70 sq mm of 3 core, XLPE aluminium conductor cable of 11 KV grade as required.	Each	2.00	6600.00	13200.00
29	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.	Each	10.00	5500.00	55000.00
30	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr.	30.00	100.00	3000.00
31	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	Mtr.	50.00	380.00	19000.00
32	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Mtr.	50.00	160.00	8000.00
33	Earthing with copper earth plate 600 mm X 600 mm X 3 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.	Each	4.00	10400.00	41600.00
34	Supplying and laying 25 mm X 5 mm Copper strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr.	20.00	650.00	13000.00

S.No.	Description of Item	Unit	Qty	Rate	Amount
35	Providing and fixing 25 mm X 5 mm Copper 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	Mtr.	20.00	950.00	19000.00
36	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required.	Mtr.	830.00	50.00	41500.00
37	Supply, Installation, Testing and Commissioning of 'Silent Type' Diesel Generating set alongwith having Prime Power Rating of 180 KVA, 415 volts at 1500 RPM, 0.8 lagging power factor at 415 V suitable for 50 Hz, 3 phase system & for 0.85 Load Factor and consisting of the followings: Diesel Engine : Diesel engine 4 stroke water cooled, electric start, of suitable BHP at 1500 RPM suitable for above output of alternator at 40 Degree C, 50% RH & at 1000 Meter MSL and conforming to BS 5514, BS 649, IS 10000, capable of taking 10% over loading for one hour after 12 hours of continuous operation. The engine will be fitted complete with all the required accessories. Engine mounted Instrument Panel fitted with and having digital display for following: (i) Start-stop switch with key (ii) Water temperature indication (iii) Lubrication oil pressure indication (iv) Lubrication oil temperature indication (v) Battery charging indication (vi) RPM indication (vii) Over speed indication (viii) Low lub. Oil trip indication (ix) Engine Hours indication Alternator: Synchronous alternator rated at 180 KVA, 415 volts at 1500 RPM, 3 phase 50 Hz, AC supply with 0.8 lagging power factor at 40 Degree C, 50% RH & at 1000 Meter MSL. The alternator shall be having SPDP enclosure, brushless, continuous duty, self-excited and self-regulated through AVR conforming to IS: 4722/BS 2613 suitable for tropical conditions and with class- F/H insulation. Base Frame & Foundation : Both the engine and alternator shall be mounted on suitable base frame made of MS fabricated base frame with AVM pads. which shall be installed on existing cement concrete foundation and vibration isolation arrangement as per recommendations of manufacturer. Fuel line work : Daily service inbuilt fuel tank of OEM recommended capacity fabricated out of 2 mm thick M.S. sheet complete with all standard accessories and fuel piping between fuel tank and diesel engine with MS class 'C' pipes of suitable dia. complete with valves, level indications & accessories as required as per specifications and as per OEM recommendations. Exhaust System : Dry exhaust manifold with hospital exhaust silencer and catalytic convertor. Starting System : 12/24V DC starting system comprising of starter motors, voltage regulator and arrangement for initial excitation complete with suitable nos of batteries and its capacity as per OEM recommendation. Acoustic Enclosure: Acoustic and weather proof enclosure with arrangement for fresh air intake for cooling of the engine & alternator, extraction, discharging hot air in to the atmosphere as per specifications	Each	1.00	1233500.00	1233500.00
38	Design, Supply, Installation, Testing and Commissioning of 315 Amp, 36 kA capacity indoor and cubicle type AMF panel suitable for 180 KVA DG Set, made out of 2 mm CRCA sheet steel, totally enclosed, IP 42 protection, free standing, floor mounting, dust and vermin proof, compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply system, interconnections with suitable size of copper lead/ solid aluminium strips, control circuit with switch, digital type ammeter and voltmeter, LED type indicating lamps, CT's as required and having 02 nos 315 AMP FP MCCB, 35kA (MP Based OC, S/C & E/F protection) for Main & DG Incomers with 315A FP Power Contactors and 01 No. Manual ON Load Changeover for bypass in event failure of AMF i/c required numbers of AMF relay, over current and earth fault relay, over and under voltage relay, alternator and main voltage monitor relay, engine start and engine cranking relay. Panel should have continuous suitable size GI earth strip throughout the length of panel with earth terminations at both the ends, cable alleys suitable for bottom entry of cables including supply & installation of all items as required and as per tender technical specification. Works includes required minor civil works like providing C- channel etc as required at site. Loading & unloading, Positioning, Testing and Commissioning of panel complete as per site requirement and as per Instruction of E-I-C.	Each	1.00	510000.00	510000.00
39	Providing and laying in position cement concrete 1:2:4 (1cement: 2 coarse sand :4 graded stone aggregate 20 mm nominal size) in foundation of pump, DG set etc including form work etc as required.	Cum	8.00	6600.00	52800.00

S.No.	Description of Item	Unit	Qty	Rate	Amount
40	Supply and fixing of minimum 125mm dia. size ,Class C MS Piping with 50mm thick mineralwool/glasswool/Rockwool insulation (of 46 kg per cubic meter density) around the exhaust pipes of 180 KVA DG set including cladding with aluminium sheet of 0.60mm thick for exhaust including providing suitable bends, reducers & supporting arrangement at suitable intervals for attaching the pipe to existing RCC /steel structure, painting etc. as required.	Rm	10.00	6500.00	65000.00
41	Providing & fixing for MS support structure for exhaust fume pipes from DG Sets (Exhaust pipe to be measured and paid for separately) for bottom support along horizontal and vertical runs upto the height (as per CPCB norms) including cutting, welding etc and applying two coats of red oxide and two coats of synthetic enamelled paint of colour and shade as directed by E-I-C. The design of the support structure shall be done by the contractor and shall be suitable to the exhaust pipe height as per CPCB norms approved , also to get the approval from the E-I-C. before execution etc. as required. Work include all necessary civil work.	Kg	200.00	150.00	30000.00
42	Design, detailed engineering Manufacturing, supply,Installation,testing and commisioning of Grid connected roof top solar PV power Plant of the required capacity as per tender specifications i/c transportation,insurance,transit insurance,required civil work for foundation etc, storage of materials,statutory clearances &approvals etc and any other items or accessories required for successful commissioning of power plant.	Wp	50000.00	25.00	1250000.00
43	Supply ,installation testing and commisioning of double pole structure on STP of 11 mtr long alongwith 11 KV disc/pin insulator, suitable MS channel, 11 KV TPMO set , 11KV fuse set, painting , grouting etc complete as required including dismantling of existing structure.	Set	1.00	175000.00	175000.00
Total Rs.					6289864.00

Rupees Sixty Two Lakhs Eighty Nine Thousand Eight Hundred Sixty Four Only (Excluding GST)


 8/1/2021
 उप महाप्रबंधक(अभि0-विद्युत)
Dy. General Manager (Engg.-E)

Signature Not Verified

Digitally signed by VINOD KUMAR PANDEY
 Date: .. :: IST
 Location: eProcurement System for Central PSUs

