



संदर्भ सं.: भाविप्रा/प.क्षे./स.म.प्र (इंजी-विद्युत)/कांड/सीडब्लू-03/2022-23/ 836

दिनांक: 20.03.2023

Ref. No: AAI/WR/AGM(E-E)/KAND/CW-03/2022-23/

Date: 20.03.2023

सेवा में/ To,
मेसर्स दोशी इंजीनियरिंग कं. / M/s.Doshi Engineering. Co.,
पुरानी जेल रोड/ Old Jail Road,
आर.एम.सी. बाल मंदिर के विपरीत/ Opp. R.M.C. Bal Mandir,
राजकोट 300 001/ Rajkot-300 001.

विषय/ Sub: एल.टी. से एच.टी. पावर सप्लाय परिवर्तन से संबंधित विद्युत कार्य । उपशीर्ष: कांडला हवाईअड्डा में 11 के.वी., 250 के.वी.ए. कॉम्पैक्ट सबस्टेशन का प्रावधान ।

Augmentation of power supply including conversion from LT to HT including provision of DG set at C.A. Kandla. SH : SITC of 11 KV , 250 kVA Compact Substation at Kandla Airport.

संदर्भ: आपकी ई-निविदा नं. 2022_AAI_123734_1 दिनांक 06.03.2023 को खोला गया ।

Your e-tender id. 2022_AAI_123734_1 opened on Dated 06.03.2023.

महोदय,/ Dear Sir(s),

- उल्लेखित कार्य हेतु आपके द्वारा बताए गये मद मूल्यों पर आपकी ई-निविदा राशि कुल **रु. 61,34,400.00 (रुपए इकसठ लाख चौतीस हजार चार सौ मात्र) + जीएसटी** है, जो कि ई-निविदा की उचित लागत राशि रु. 77,42,292/- से **20.77 % नीचे** है, उसे अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत की जाती है, । आपके द्वारा वैध टैक्स इन्वाइस प्रस्तुत करने पर जीएसटी अदा किया जाएगा । गुजरात राज्य के लिए जीएसटी क्र. GSTIN:-24AAACA6412D1ZE है ।
Your e-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. 61,34,400.00 (Rupees Sixty One Lakh Thirty Four Thousand Four Hundred only) + GST** which is **20.77 % below** the Justified cost of **Rs.77,42,292/-** . GST will be paid against valid Tax invoice from the agency. For Gujarat state AAI GST no. is GSTIN:24AAACA6412D1ZE
- सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, प.क्षे., क्षेत्रीय मुख्यालय, विलेपार्ले (पूर्व), मुंबई-400099, कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आपकी ओर से एक विश्वसनीय प्रतिनिधी प्रतिनियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक **29.03.2023** तक सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, परिचालन कार्यालय भवन, न्यू एअरपोर्ट कालोनी, विलेपार्ले (पूर्व), मुंबई-400099 के कार्यालय में उपस्थित हो तथा करारनामे को पुरा करें । ठेके का करारनामा रु. 100/- के नॉनज्युडिशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा ।

Asstt.GM (ENGG. - ELECT.), RHQ (WR), Vile Parle (E), Mumbai - 400 099 shall be the Engineer-In-Charge of this work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office to the Asstt.GM (ENGG- ELECT.), RHQ (WR), Operational office building, New Airport Colony, Vile Parle (E), Mumbai-400 099 by **29.03.2023** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** and the cost of the stamp paper shall be borne by you.

P.T.O



3. कृपया **रु.6,13,440.00(रुपये छह लाख तेरह हजार चार सौ चालीस मात्र)** प्रतिभूति जमा के रूप में यह पत्र जारी करने के तारीख के 10 दिन के अंदर जमा किजीये। जमा करने की असफलता में वह राशि बिल से ठेके की शर्तों के अनुसार काट दी जायेगी।

Please deposit **Rs.6,13,440.00 (Rupees Six Lakh Thirteen Thousand Four Hundred & Forty only)** towards security deposit within 10 days from the date of issue of this letter, failing which the same will be deducted from your bill as per contract conditions.

4. आपसे निवेदन है कि आप केंद्रिय और राज्य सरकारों 1970 के अधिनियम अनुबंध श्रम नियम (नियम तथा उन्मुलन) 1971 के केन्द्रीय नियम श्रम नियम (नियमन तथा उन्मुलन) एवं केन्द्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन करें।

You are requested to comply with provision of contract labour (Regulation and Abolition Act 1970 and contract labour Regulation & Abolition) Central rule 1971 and minimum wages Act & rules thereof central and safe Govt.

5. आपको यह निर्देश दिया जाता है कि आप सहा.प्रबन्धक (इंजी-विद्युत),कांडला हवाईअड्डा से संपर्क करें जो आपको साईट सौंपने की व्यवस्था करेंगे।

You are directed to contact Asstt.Mgr. (E-E), Kandla Airport immediately who will arrange to handover the site.

6. कृपया आप से अनुरोध है की दिनांक **29.03.2023** से काम शुरू करें। कृपया ध्यान दे की काम को पूरा करने के लिए दिनांक **28.07.2023** तक का समय दिया गया है।

You are requested to start the work from **29.03.2023**. Please note that time allowed for completion of the work is up to **28.07.2023**.

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार सहा.महाप्रबंधक (इंजी-विद्युत), भाविप्रा, प.क्षे., क्षेत्रीय मुख्यालय, एकीकृत प्रचालन कार्यालय भवन, विलेपार्ले (पुर्व), मुंबई-400099 के पते पर किया जाए।

Any further correspondence in connection with the contract should normally be addressed to Asstt.GM(E-E), RHQ (WR), Integrated Operational office building, Vile Parle (E), Mumbai - 400099.

8. कृपया पावती भेजें तथा इस आदेश की दोहरी प्रति आपके हस्ताक्षर के पश्चात इस कार्यालय में भेजें जो कि स्वीकृती टोकन समझा जाएगा।

Please acknowledge the receipt and return the duplicate copy of this order enclosed herewith after signing to the undersigned as a token of acceptance.

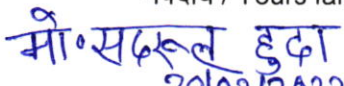
9. यदि अंग्रेजी और हिंदी पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जायेगा।

If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

धन्यवाद/ Thanking You,

Encl: 1. SOQ

भवदीय / Yours faithfully,


20/03/2023

(मो. सदरुल हुदा)/(Md. Sadrul Huda)

सहा.महाप्रबंधक (इंजी-विद्युत),

Asstt.GM (Engg.-Elect.)

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण,

For and on behalf of Chairman, Airports Authority of India

Validate

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Item Rate BoQ

Tender Inviting Authority: Asst.General Manager (E-E)

Name of Work: "Augmentation of power supply including conversion from LT to HT. SH : SITC of 11 KV , 250 KVA Compact Substation at Kandla Airport"

Tender ID: 2022_AAI_123734_1

Name of the Bidder/ Bidding Firm / Company :	DOSHI ELECTRIC ENGG. CO., RAJKOT					
PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	13	53	55
1	Design, Manufacturing & SITC of 11 KV , 250 KVA Outdoor type , pre-fabricated , Package Sub-station consisting of 11/0.433 kV, dry type transformer, HT panel, LT panel etc. inside GI sheet steel enclosure with all interconnections, fully type tested as per IEC-1330/ IS 14786 complete in all respect each consisting of following items & as per detailed technical specifications: Outdoor Enclosure: Outdoor type enclosure having modular construction of 1.5/2 mm Galvanised Sheet Steel. The Enclosure shall have IP 54 degree of protection for HT & LT switchgear compartment & IP 34 degree of protection for Transformer compartment. The enclosure exterior shall be painted with polyurethane paint (Colour Light Grey & D.A. Grey). Each compartment shall be provided with the door and pad locking arrangement. The compartment illumination lamp with door operated switch shall be provided for each compartment. Interconnection Between HT switchgear & Transformer using XLPE Single core cable & Interconnection between transformer & LT switchgear using Busbars. All metallic components shall be earthed to a common earthing point. HT Panel : - 11kv, 630A, 25KA/3 sec HT Switchgear consisting of 2 no. Load break switches and 1 no. fixed type Vacuum Circuit Breaker module for transformer protection. All the live part, VCB modules, isolators, earth switches must be sealed within robotically welded 3 mm thick single stainless steel tank filled with SF6 gas as insulation having IP 67 degree of protection. Each module of the panel should have hinged arc proof cable door with self interlocking mechanism to the corresponding earth switch, all cable terminations shall be from the front, ringcore CTs for protection purposes with self powered microprocessor based numerical 3 O/C & 1 E/F relay, arrangement for connection of incoming cable & outgoing to primary of transformer. Switchgear shall be complete with connections, Copper bus-bars, cable supports, manometer, voltage indications, mechanical indications for breaker and confirming to IS : 13118/IEC : 265, 129, 298, 694, 529. Self powered O/C and E/F relay Mechanical position indicator - SWITCH ON/OFF/EARTHED Manometer (SF6 gas pressure indicator) Operating handle RMU should also have provision of Gas filling at site, in case of any leakage.					

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1	2	4	5	13	53	55
1.01	Transformer - 1 no. 250 KVA, 11kv/433V, Dyn11, dry type ANAN cooled transformer alongwith with off circuit tap links of rating - 5% to +5% in steps of 2.5% each. Class of insulation - F WTI scanner with alarm and tripping contact Surge arrestor Transformer shall confirm to IEC 60076-11/IS 11171 or upto date relevant standards Interconnection & Earthing :- Internal factory connections Between HT switchgear & Transformer shall be done using 1C X 3 run X 95 Sq. mm XLPE unarmoured single core cable & Interconnection between Transformer & LT switchgear using Al. Busbars. Internal earthing connections shall be by using 50 x 6 mm GI strip. LT Compartment :- 433 V LT Indoor panel with 400 Amp Aluminium Busbars, Fabrication using 1.5/2 MM CRCA sheet steel, Ingress protection IP4X, solidally earthed at substation complete with internal wiring, indication lamps etc consisting of following switchgear & accessories:- Incomer: MCCB 400 A, 433 V, 4 P 50 Hz, 50KA with Microprocessor/Thermo magnetic Release type -1 No. Outgoings: MCCB 400 A, 433 V, 4 P 50 Hz, 50KA with Microprocessor/Thermo magnetic Release type - 2 No. Digital flush pattern type voltmeter (0-500 volt) with built in selector switch - 3 Set. Digital flush pattern type ammeter (0-1000 Amp), with built in selector switch and one set of 3 Nos. CTs with ratio 400/5A Class I accuracy and 15VA burden - 3 Set. (1 for each MCCB) 3 Nos. phase indication LED lamps with 2 Amp SP MCB protection etc - 3 Set (1 for each MCCB) ON-OFF-TRIP indication lamps - 3 set (1 for each MCCB). Safety equipments: All items necessary including items mentioned in the Technical specifications shall be supplied by the Contractor.	2.00	Set	2200000.00	4400000.00	INR Forty Four Lakh Only
2	Supply of following stranded Aluminium conductor, XLPE insulated, PVC inner sheathed, armoured power cable of 11 kV grade as per IS-7098 (Part 2) - 2011 with up to date amendments of approved make & as per technical specifications etc. complete as required. 3 Core x 70 Sq. mm	810.00	mtr	635.00	514350.00	INR Five Lakh Fourteen Thousand Three Hundred & Fifty Only
3	Supply of following stranded Aluminium conductor, XLPE insulated, PVC inner sheathed, armoured power cable of 1.1 kV grade as per IS-7098 (Part 1) - 2011 with up to date amendments of approved make & as per technical specifications etc. complete as required. 3.5 Core x 300 Sq. mm	60.00	mtr	1200.00	72000.00	INR Seventy Two Thousand Only
4	Supply of 90 mm size (OD-90 mm & ID-76 mm nominal) DWVC HDPE pipe ISI marked conforming to IS-16205, Part 24.	720.00	mtr	100.00	72000.00	INR Seventy Two Thousand Only
5	Laying of 90 mm size (OD-90 mm & ID-76 mm nominal) DWVC HDPE pipe ISI marked along with all accessories like socket, bend, couplers, end caps etc. conforming to IS-16205, Part 24 complete with fitting and cutting, jointing etc. direct in ground (90 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	720.00	mtr	120.00	86400.00	INR Eighty Six Thousand Four Hundred Only
6	Providing, laying and fixing 150 dia(nominal size) G.I. pipe (medium class) in ground complete with G.I. fittings including trenching in existing bituminous /concrete road , re-filling and making good the same etc as per site requirement.	108.00	mtr	2000.00	216000.00	INR Two Lakh Sixteen Thousand Only
7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of size 70 Sq. mm in the existing RCC/ HUME/ METAL/DWVC pipe as required.	720.00	mtr	40.00	28800.00	INR Twenty Eight Thousand Eight Hundred Only
8	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of size upto 300 Sq.mm in the existing masonry open duct as required.	50.00	mtr	60.00	3000.00	INR Three Thousand Only

HGA

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1	2	4	5	13	53	55
9	Supplying and making indoor cable end termination with heat shrinkable kit complete with all accessories including lugs for 3 core X 70 sq.mm. XLPE aluminium conductor cable of 11 KV grade as required.	2.00	set	2500.00	5000.00	INR Five Thousand Only
10	Supplying and making outdoor cable end termination with heat shrinkable kit complete with all accessories including lugs for 3 core X 70 sq.mm. XLPE aluminium conductor cable of 11 KV grade as required.	2.00	set	3000.00	6000.00	INR Six Thousand Only
11	Supplying and making end termination with brass compression gland and Aluminium lugs for 3.5 core X 300 sq.mm. size of PVC insulated and PVC sheathed / XLPE Aluminium conductor cable of 1.1 KV grade as required.	4.00	set	1100.00	4400.00	INR Four Thousand Four Hundred Only
12	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.	4.00	nos	6500.00	26000.00	INR Twenty Six Thousand Only
13	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.	4.00	nos	18000.00	72000.00	INR Seventy Two Thousand Only
14	Earthing with G.I. earth pipe 4.5 meter long, 40 mm dia. including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal / coke and salt as required.	2.00	Nos	4500.00	9000.00	INR Nine Thousand Only
15	Providing and fixing 25 mm X 5 mm Copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	60.00	mtr	1500.00	90000.00	INR Ninety Thousand Only
16	Providing and fixing 25 mm X 5 mm GI strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re-filling etc. as required.	40.00	mtr	700.00	28000.00	INR Twenty Eight Thousand Only
17	Providing and fixing 25 mm X 5 mm Copper strip on surface or in recess for connections etc. as required.	30.00	mtr	900.00	27000.00	INR Twenty Seven Thousand Only
18	Providing and fixing 25 mm X 5 mm GI strip on surface or in recess for connections etc. as required.	50.00	mtr	150.00	7500.00	INR Seven Thousand Five Hundred Only
19	Excavation of the cable trenches in hard rock not exceeding 1.5 meters in width and lift up to 1.5 meters , including getting out the excavated soil and disposal of excavated soil as directed.	9.45	cum	1000.00	9450.00	INR Nine Thousand Four Hundred & Fifty Only
20	Laying of 90 mm size (OD-90 mm & ID-76 mm nominal) DVC HDPE pipe ISI marked along with all accessories like socket, bend, couplers, end caps etc. conforming to IS-16205, Part 24 complete with fitting and cutting, jointing etc. direct in ground (90 cm below ground level) , refilling the trench but excluding excavation as required.	30.00	mtr	50.00	1500.00	INR One Thousand Five Hundred Only
21	Providing and laying in position reinforced cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size) for foundation of Compact sub station including excavation including form work etc. for foundation of CSS as required.(excluding reinforcement) (Foundation drawing shall be got approved from EIC)	20.00	cum	7000.00	140000.00	INR One Lakh Forty Thousand Only
22	Steel reinforcement for RCC work including straightning , cutting , bending , placing in position and binding all complete as required. Mild Steel and Medium Tensile Steel bars	800.00	kg	90.00	72000.00	INR Seventy Two Thousand Only
23	Providing 15 mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) at all levels (for foundation).	40.00	sq.mtr	300.00	12000.00	INR Twelve Thousand Only

सहकर्म

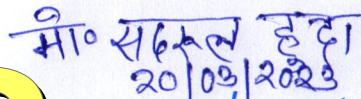
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
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1	2	4	5	13	53	55
24	Supplying and fixing cable route marker with 10 cm X 10 cm X 5 mm thick G.I. plate with inscription there on, bolted /welded to 35 mm X 35 mm X 6 mm angle iron, 60 cm long and fixing the same in ground as required.	30.00	each	400.00	12000.00	INR Twelve Thousand Only
25	Construction of 11 kV HT DP structure to tap power supply from PGVCL DP structure with following material , Switchgear & accessories confirming to respective IS codes , ITC i/c civil works as per site requirement , statutory norms and technical specifications : 1. 150 mm x 75 mm x 6mm ISMB MS I Beam - 10 Mtr. with Joints, plates , fabrication , Base plate , 1 coat of Red oxide & 2 coats of Silver paint. - 2 no. 2. 75 mm x 40 mm x 6mm- 2 Mtr. ISMC MS Channel with fabrication , drilling , GI Nut Bolts , 1 coat of Red Oxide & 2 coats of Silver Paint - 8 no. 3. 35 mm x 35 mm x 6 mm - 3 Mtr Belting angles with fabrication , drilling , GI Nut bolts, 1 coat of red oxide & 2 coats of Silver Paint - 2 no. 4. Stay Set with Anchor Rod, Turn Buckle, I-Bolts, Stay insulator , Stay wire etc. - 1 Set 5. 11 KV GOAB Switch, 3-Phase, Tilting type Vertical Mounting With Operating Mechanism & FRP rod , discharging rod (Porcelain Insulators) heavy duty - 1 Set. 6. 11 KV Drop Out Fuse, 3-Phase, Expulsion type (Porcelain Insulators) with fuse elements – Heavy Duty – 200 Amp - 1 Set. 7. 9 kV , 5 kA distribution class Lightning arrestors - 3 no. 8. 11 kV Disc insulating insulators- 1 Set. 9. 11 kV Pin insulators- 1 Set. 10. ACSR Conductors for interconnections- 1 lot. 11. GI Pipe 100 mm for cables - 3 Mtr. x 2 no.	1.00	Job	100000.00	100000.00	INR One Lakh Only
26	Constructing masonry Chamber 900 mm x 900 mm x 1000 mm inside, with 50 class designation brick work in cement mortar 1:4 (1 cement : 4 coarse sand) , RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate) 20 mm nominal size with RCC Cover i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate) 40 mm nominal size and inside plastering with cement mortar 1:4 (1 cement : 4 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design with common burnt clay F.P.S.(non modular) bricks of class designation 7.5.	6.00	Job	20000.00	120000.00	INR One Lakh Twenty Thousand Only
Total in Figures					6134400.00	INR Sixty One Lakh Thirty Four Thousand Four Hundred Only
Quoted Rate in Words		INR Sixty One Lakh Thirty Four Thousand Four Hundred Only				

Signature Not Verified

Digitally signed by MD SADRUL HUDA

Date: 2023.10.18 09:34:03 IST

Location: eProcurement System for Central PSUs


 20/10/2023
 Md. Sadrul Huda / Md. Sadrul Huda
 सहायक महाप्रबंधक (अभि.-विद्युत) / Asst. General Manager (Engg-Elect.)
 भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
 प. क्षे. मुख्यालय, मुंबई / WR, Mumbai - 400 099.