



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

संख्या: भाविप्रा/गया /स.म.प्र.(अभि.-वि.)/डब्लु.ओ. -12/2020-21/

दिनांक: 21.01.2021

(स्पीड पोस्ट)

सेवा में,

To,

मै० रीशा कंट्रोल इंजीनियर्स प्रा० लि०,
45, गणपति धाम,
इंडस्ट्रियल एरिया,
बहादुरगढ़,
झज्जर, (हरियाणा) - 124507

M/s Risha Control Engineers Pvt. Ltd.,
45, Ganpati Dham,
Industrial Area,
Bahadurgarh,
Jhajjar, (Haryana)- 124507

E-mail:- (i) sales@risha.in

विषय : गया एयरपोर्ट, गया में ए०एम०एफ० और लोड शेयरिंग सुविधा के साथ डी०जी० सिंक्रोनाइजिंग सहित पी०सी०सी० पैनल का प्रावधान।

Subject: - Provision of D.G. Synchronising cum PCC Panel with AMF & Load Sharing Facility at Gaya Airport, Gaya

संदर्भ : (i) Tender ID - 2020_AAI_62944_1, Financial bid opened on 04.01.2021

महोदय,

- उपर्युक्त कार्य हेतु आपकी ई-निविदा अध्यक्ष, भा०वि०प्रा० की ओर से एतद्वारा इस आधार पर स्वीकार की जाती है कि आपके द्वारा उद्धृत आइटम दरों पर कुल योग रू० 45,57,000/- (पैंतालिस लाख सत्तावन हजार रुपये मात्र) है जोकि निविदा में दिये गये अनुमानित लागत रू० 52,88,691/- से 13.84% नीचे है।

Your e-tender for the work mentioned above is hereby accepted on behalf of the Chairman, AAI, at the item rates quoted by you totaling to **Rs. 45,57,000.00 (Rupees Forty Five Lacs Fifty Seven Thousand Only)** which is **13.84%** below the estimated cost put to the tender of **Rs. 52,88,691.00**.

- सहायक महाप्रबंधक (अभि.-विद्युत), भा०वि०प्रा० गया हवाई अड्डा गया कार्य के प्रभारी अभियंता होंगे। कृपया आप स्वयं या अपने प्राधिकृत एवं संविदा-करार पर हस्ताक्षर करने में सक्षम प्रतिनिधि को हस्ताक्षर एवं करार पूरा करने हेतु सहायक महाप्रबंधक (अभि.-विद्युत) भारतीय विमानपत्तन प्राधिकरण, गया हवाई अड्डा गया के कार्यालय में **08.02.2021** तक भेजे। संविदा करार आप के द्वारा उपलब्ध कराए गए 1000/- रू (एक हजार रुपया) के गैर अदालती पक्के कागज पर सम्पादित किया जाएगा।

AGM (Engg.-Elect.), AAI, Gaya Airport, Gaya, shall be the Engineer-in-charge of the work. You are requested to attend or depute your accredited representative empowered to sign the contract agreement on your behalf to attend the office of AGM (Engg.-Elect.), AAI, Gaya Airport, Gaya by **08.02.2021** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs. 1000/- (Rupees One Thousand Only)** and cost of the stamp paper shall be borne by you.

21.01.2021
अभि.-विद्युत
आ.स.म. (Engg. Elect.)
गया हवाई अड्डा, गया
A.A.I., Gaya Airport, Gaya

- 3 कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर प्रतिभूति जमा राशि शेष रू० 4,55,700/- (चार लाख पचपन हजार सात सौ रुपये मात्र) जमा करें अन्यथा यह राशि आपके चालू बिलों से संविदा सामान्य शर्त 1A के तहत काट ली जाएगी एवं आपके निविदा के साथ प्राप्त बयाना राशि रू० 1,05,774/- (एक लाख पांच हजार सात सौ चौहतर रुपये मात्र) आपको ऑनलाइन माध्यम से (निविदा में वर्णित प्रावधानों के अनुसार) वापस की जाएगी।

Please deposit **Rs. 4,55,700/- (Rupees Four Lacs Fifty Five Thousand and Seven Hundred 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 clause 1A of GCC and Earnest Money amount of **Rs 1,05,774/- (Rupees One Lacs Five Thousand Seven Hundred and Seventy Four Only)** shall be refunded to your source account (as per provisions mentioned in the tender) through online mode.

- 4 आपसे अनुरोध है कि संविदा सामान्य शर्त 19, पेज 49 के अनुसार संविदा श्रम (नियमन व समापन) अधिनियम-1970 के प्रावधानों, संविदा श्रम (नियमन व समापन) केन्द्रीय नियम, 1971, एवं केन्द्र व राज्य सरकारों के तत्सम्बन्धी न्यूनतम मजदूर अधिनियम व एवं अन्य नियमों का पालन करें।

You are requested to comply with the provisions of Contract Labour (Regulation & Abolition) Act of 1970 and Contract Labour (Regulation & Abolition) Central Rules – 1971, Minimum Wages Act etc. as specified in clause 19 on page 49 of GCC of tender and rules of central and state Government.

5. आपको यह निर्देश भी दिया जाता है कि प्रबंधक (अभि.-विद्युत)-I, भारतीय विमानपत्तन प्राधिकरण, गया हवाई अड्डा, गया से शीघ्र संपर्क करें, जो आपको कार्यस्थल सौंपने की व्यवस्था करेंगे।

You are also directed to contact the Manager (Engg-E)-I, Airports Authority of India, Gaya Airport, Gaya immediately who will arrange to hand over the site to you.

6. कृपया यह नोट किया जाए कि निविदा में की गई प्रविष्टि के अनुसार काम करने की अवधि (04) चार महीने हैं, जिसकी गिनती इस पत्र के जारी होने की तिथि के बाद दसवें दिन से शुरू हो जाएगी।

Please note that the time allowed for carrying out the work as entered in the tender is (04) Four months, which shall be reckoned from 10th day after issue of this letter.

- 7 आपकी निविदा एवं इस कार्य के संदर्भ में उल्लिखित पत्र, इस अवार्ड पत्र सहित करार का हिस्सा होंगे। कृपया नोट करें कि दोष दायित्व अवधि (12) बारह महीने होगी।

Your tender mentioned above under the reference for this work shall form part of the agreement along with this award letter. Please note that the defect liability period shall be (12) Twelve Months.

Handwritten signature
21-01-2021
सं. निविदा (अभि. विद्युत)
Asst. G.M. (Engg. Elect.)
भा. वि. प्रा. / गया हवाई अड्डा, गया
A.A.I., Gaya Airport, Gaya

- 8 भविष्य में संविदा से संबंधित कोई भी पत्राचार सहायक महाप्रबंधक (अभि.-विद्युत), भारतीय विमानपत्तन प्रधिकरण, गया हवाई अड्डा, गया से किया जाए।

Any further correspondence in connection with the contract shall normally be addressed to the AGM (Engg.-E), AAI, Gaya Airport, Gaya.

- 9 कार्य आदेश के सम्बंध में किसी प्रकार की टंकणीय त्रुटि/बिसंगति होने पर अंग्रेजी संस्करण मान्य होगा।

With reference to this work order, if in case of any typographical mistake/discrepancy arise, the English version shall be applicable as final.

- 10 कृपया पावती भेजें।

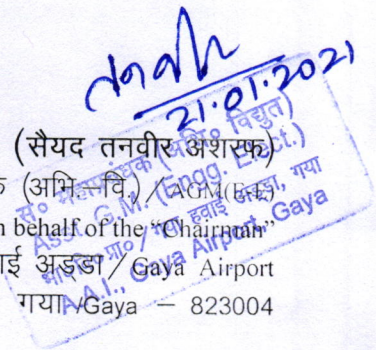
Please acknowledge the receipt of the same.

धन्यवाद,

संलग्न :- 1) मदों की सूची।

i) Schedule of Quantity

(सैयद तनवीर अशरफ)
सहायक महाप्रबंधक (अभि.-वि.) / AGM (Engg.-E)
अध्यक्ष की ओर से और उनके लिए / For and on behalf of the "Chairman"
भा.वि.प्रा. / AAI, गया हवाई अड्डा / Gaya Airport
गया / Gaya - 823004





AIRPORTS AUTHORITY OF INDIA
ELECTRICAL ENGINEERING WING
GAYA AIRPORT, GAYA

BILL OF QUANTITY

Name of Work : Provision of D.G Synchronising cum PCC Panel with AMF & Load Sharing Facility at Gaya Airport, Gaya

Sr. No.	Description of Items	Qty.	Unit	Rate	Amount (Rs.)
SH: A	D.G SYNC. CUM PCC PANEL & RELATED WORKS				
1	Design, manufacture Supply, Installation, Testing and Commissioning of D.G Synchronising cum PCC Panel with AMF, load sharing & power distribution facilities, cubicle type, made of 2 mm thick sheet steel, totally enclosed, IP 4X, free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, powder coated painting suitable for operation on 3 Phase and neutral, 415V, 50 Hz AC supply from D.G Sets (individual or in sync. & parallel load sharing mode as per load requirements) & Mains power with Al. busbars extensible on both sides, interconnections including supply & installation of following items/components (but not limited to) and as per Technical specification & site requirement complete as required:				
	MAINS SUPPLY INCOMER				
	2000A FP EDO ACB (50KA) with built-in Microprocessor Based Release for (O/C, S/C, E/F Protection) and with RS485 communication port facility, closing coil ,Under Voltage Release - 2 No.				
	Shunt release -2 No.				
	Breaker Control Switch with (T-N-C) -2 No.				
	Auto/Manual Selector Switch -2 No.				
	Auxiliary Contactor 2NO+2NC - 6 No.				
	Intelligent multi function digital meter to read V,A,KVA, KW, KVAR, PF, HZ etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order, Cl.-1.0, 96x96sq.mm., Flush Mounted - 2 No.				
	CTs 2000/5A, Class-1.0, 15VA for Metering - 6 No.				
	Single Phase Preventer - 2 No.				
	Phase Reversal Relay (Phase Sequence Relay) - 2 No.				
	3 Phase, 4 Wire Under & Over Voltage Relay (Auto / Manual Reset, Trip Time & Power ON Delay 1-10 Sec.) OV/UV - Adjustable - 2 No.				
	Indicating lamps - R/Y/B/ON/OFF/TRIP/Spring Charged - 14 No.				
	2A SP Control MCB (10KA), C-Curve -16 No.				
	SPD - Class B - 2 No.				
	63A TP MPCB -2 No.				
	DG INCOMER -1 & 2				
	800A TP EDO ACB (50KA) with built-in Microprocessor Based Release for (O/C, S/C, E/F Protection) with RS485 communication port facility, closing coil, Under Voltage Release - 2 No.				
	400 A Neutral isolation contactor -2 No				
	Shunt release -2 No.				
	Breaker Control Switch with (T-N-C) -2 No.				
	Auto/Manual Selector Switch -2 No.				
	Auxiliary Contactor 2NO+2NC - 4 No.				
	Intelligent multi function digital meter to read V,A,KVA, KW, KVAR, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order, Cl.-1.0, 96x96sq.mm., Flush Mounted - 2 No.				
	Digital energy meter with RS-485 comm. Port CL1.0 -2 No.				
	CTs 800/5A, Class-1.0, 15VA for Metering (Resin Cast) -6 No.				
	CTs 800/5A, Class-PS, 15VA for Metering (Resin Cast) -8 No.				
	Single Phase Preventer - 2 No.				
	Phase Reversal Relay (Phase Sequence Relay) - 2 No.				
	3 Phase, 4 Wire Under & Over Voltage Relay (Auto / Manual Reset, Trip Time & Power ON Delay 1-10 Sec.) OV/UV - Adjustable - 2 No.				
	Restricted Earth Fault Relay -2 No.				
	Indicating lamps - R/Y/B/ON/OFF/TRIP/Spring Charged - 14 No.				
	2A SP Control MCB (10KA), C-Curve -16 No.				

(Signature)
21.01.2021
भा.वि.प्रा. / गया हवाई अड्डा, गया
A.A.I., Gaya Airport, Gaya

SPD - Class B - 2 No.
63A TP MPCB -2 No.
DG INCOMER -3
630A TP EDO ACB (50KA) with built-in Microprocessor Based Release for (O/C, S/C, E/F Protection) (and with RS485 communication port facility, closing coil, Under Voltage Release -1 No.
400 A Neutral isolation contactor -1 No
Shunt release -1 No.
Breaker Control Switch with (T-N-C) -1 No.
Auto/Manual Selector Switch -1 No.
Auxiliary Contactor 2NO+2NC -2 No.
Intelligent multi function digital meter to read V,A,KVA, KW, KVAR, PF, Hz etc with communication facility (RS485 port), THD and Individual order harmonics upto 31st Order, CL-1.0, 96x96sq.mm., Flush Mounted - 1 No.
Digital energy meter with RS-485 comm. Port CL1.0 -1 No.
CTs 600/5A, Class-1.0, 15VA for Metering (Resin Cast) - 3 No.
CTs 600/5A, Class-PS, 15VA for Metering (Resin Cast) - 4 No.
Single Phase Preventer - 1 No.
Phase Reversal Relay (Phase Sequence Relay) - 1 No.
3 Phase, 4 Wire Under & Over Voltage Relay (Auto / Manual Reset, Trip Time & Power ON Delay 1-10 Sec.) OV/UV - Adjustable - 1 No.
Restricted Earth Fault Relay -1 No.
Indicating lamps - R/Y/B/ON/OFF/TRIP/Spring Charged - 7 No.
2A SP Control MCB (10KA), C-Curve -8 No.
SPD - Class B- 1 No.
63A TP MPCB -1 No.
BUS COUPLER
2000A FP EDO ACB (50KA) WITHOUT PROTECTION RELEASE, with Under Voltage Release - 1 No.
Breaker Control Switch with (T-N-C) - 1 No.
Auto/Manual Selector Switch - 1 No.
Auxiliary Contactor 2NO+2NC - 2 No.
Indicating lamps - ON/OFF/TRIP - 3 No.
2A SP Control MCB (10KA), C-Curve - 7 No.
BUS BAR
Common bus , main outgoing Bus bars of 2000 Amps, TPN, Aluminium Bus bars
INTERLOCKING
Micro PLC Interlocking among incomers from D.G.Sets (3 Nos), Mains power (2 No.) and Ino. Bus Coupler - 1 Set as required
OUTGOINGS
1000A FP EDO ACB (50KA) with built-in Microprocessor Based Release for (O/C, S/C, E/F Protection) and with RS485 communication port facility - 4 No.
Shunt release-4 No
Breaker Control Switch with (T-N-C) - 4 No.
Auto/Manual Selector Switch - 4 No.
Auxiliary Contactor 2NO+2NC - 8 No.
Digital Ammeter with in-built selector switch CL1.0 - 4 No.
CTs 1000/5A, Class-1.0, 15VA for Metering (Resin Cast) - 12 No.
Indicating lamps - ON/OFF/TRIP - 12 No.
2A SP Control MCB (10KA), C-Curve - 28 No.
800A FP EDO ACB (50KA) with built-in Microprocessor Based Release for (O/C, S/C, E/F Protection) with RS485 communication port facility) - 2 No.
Shunt release - 2 No.
Breaker Control Switch with (T-N-C) - 2 No.
Auto/Manual Selector Switch - 2 No.
Auxiliary Contactor 2NO+2NC - 4 No.
Digital Ammeter with in-built selector switch CL1.0 - 2 No.
CTs 800/5A, Class-1.0, 15VA for Metering (Resin Cast) - 6 No.
Indicating lamps - ON/OFF/TRIP - 6 No.

1

Job

4170000.00

4170000.00

सं. महाप्रबंधक (अग्नि विभाग)
 21.01.2021 (Engg. Elect.)
 A.A.I., Gaya Airport, Gaya

2A SP Control MCB (10KA), C-Curve - 14 No.				
AUTO-SYNCHRONISING FOR 3 NOS. OF DG SETS:-				
Genset Controller - 3 Set (suitable for CATTER PILLAR/TIL DG sets at site.)				
MICROPLC FOR LOAD MANAGEMENT - 3 Set				
DG Set Selector Switch - 1 No.				
Communication cabling for CAN protocol - as required				
Instrumentation cabling - as required				
Voltage monitoring devices				
Manual/PLC/ Selector Switch - 1 No.				
12-Window Annunciator - 3 No.				
Mimic diagram-1 Set				
Engine Cranking relay - 6 No.				
Battery Charger with Ammeter & Voltmeter - 3 Set				
Power Supply 24V DC - 3 No.				
UPS 1KVA - 1 No.				
Aux. Relays - 1 Set				
Indicating lamps - 1 Set				
Push Button - 1 Set				
Hooter - 3 No.				
Control MCB - 1 Set				
Any other components, circuitary etc required for proper design, control & operation of the panel as per technical specification & site requirements. Any provisions required to be made during ITC of this panel due to dismantling of the existing AMF panels to ensure uninterrupted power supply shall be made as per site requirements				
The complete panel shall be of TTA TYPE & comply to IEC : 61439 & shall be complete in all respect for sync. operation, load sharing, load management, AMF operation & control of 2 X 500 KVA + 1X 320 KVA TIL /CATERPILLAR make D.G Sets & power distribution provisions as per technical specification & site requirements etc as required.				
2	Supplying of following size of 1.1 KV grade XLPE insulated PVC sheathed armoured power cable of aluminium conductor confirming to IS: 7098 Part - I-1988 with latest amendments etc. as required.			
a)	3.5 Core X 400 Sq. mm Cable	100	Mtr.	1,460.00
b)	3.5 Core X 240 Sq. mm Cable	100	Mtr.	960.00
3	Supplying and Making end terminations 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.			
a)	3.5 Core X 400 Sq. mm Cable	8	Each	2,500.00
b)	3.5 Core X 240 Sq. mm Cable	10	Each	2,000.00
4	Dismantling of existing AMF Panels of 2 No. of 500 KVA D.G Sets & 1 No. of 320 KVA D.G. Set of CATTERPILLAR / TIL make & shifting the panels at designated place/store safely & securely without any sort of damage to the AMF panels.			
		1	Job	75,000.00
5	Laying of one number XLPE insulated and PVC sheathed power cable of 1.1 KV grade in the existing open duct as required.			
a)	Above 185 Sq. mm upto 400 Sq. mm	200	Mtr.	150.00

Total excluding GST Rs. = **4557000.00**

(Rupees Forty Five Lacs Fifty Seven Thousand Only)

Signature Not Verified

Digitally signed by SYED TANWEER ASHRAF
Date: 2022.03.25 11:21:02 IST
Location: eProcurement System for Central PSUs

(सैयद तनवीर अशरफ)
सहायक महाप्रबंधक (अभि.-वि.) / AGM (E-E)
अध्यक्ष की ओर से और उनके लिए / For and on behalf of the Chairman
भा.वि.प्रा. /AAI, गया हवाई अड्डा / Bha. Vi. Pra. /AAI, Gaya Airport
823004