



भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India



ए.ए.आई/ए.टी/इंजी(इ)/अवार्ड-01(a)/2021-22/1-08/
AAI/AT/ENGG(E)/AWARD-01(a)/2021-22

दिनांक/DATE: 25/05/2021

सेवा में / To,

मेसर्स/M/S Taurus Industries,
1st Floor, Temple Tower,
G.S. Road, Christianbasti,
Guwahati-781005.

कार्य का नाम/Name of Work: एमबीबी हवाई अड्डे, अगरतला में 5 साल के लिए सीएमसी सहित
एएआई कॉलोनी और सीआईएसएफ बैरकों के लिए जल उपचार संयंत्र
का प्रावधान / Provision of water treatment plant for
AAI colony and CISF barracks including CMC for 5
years at M.B.B Airport, Agartala.

टेंडर आई डी संख्या/Tender ID No.: 2021_AAI_74989_1

संदर्भ/Ref.: i) Financial bid opened on 22.04.2021.

महोदय /Dear Sir,

ऊपर उल्लिखित कार्य हेतु आपका टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी टेंडर राशि कुल रु. 31,51,777/- (रु. इकतीस लाख इक्यावन हजार सात सौ सत्तर मात्र), (जीएसटी को छोड़कर) जो कि टेंडर की अनुमान राशी रु. 48,59,367/- से 35.14% प्रतिशत निचे 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.31,51,777/-** (Rupees Thirty One Lakh Fifty One Thousand Seven Hundred and Seventy Seven only), (Excluding GST) which is 35.14% below the Estimated cost put to tender of Rs. 48,59,367/-.

उप महाप्रबंधक (अभि-विद्युत), भा.वि.प्रा, अगरतला हवाई अड्डा इस कार्य के प्रभारी-अभियंता होंगे। आपसे निवेदन है कि कशरनामे पर हस्ताक्षर करने के लिए दिनांक 18-06-2021 तक उप महाप्रबंधक (अभि-विद्युत), अगरतला के कार्यालय में उपस्थित हों। ठेके का कशरनामा रु. 100/- (रु. एक सौ) मात्र के नॉनज्यूडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Dy. General Manager (Engg-E), AAI, Agartala Airport shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Dy. General Manager (Engg-E), AAI, Agartala Airport by **18-06-2021** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** (Rupees One hundred only) and the cost of the stamp paper shall be borne by you.

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आपके टेंडर के साथ प्राप्त धरोदर राशी **रु. 97,188/-** (रुपये सत्तानवे हजार एक सौ अठासी मात्र) ठेके के दस्तावेज से पृष्ठ 16 पर दी गई शर्त 1(A) के अनुसार जमानत राशी परिवर्तित कर दी गई है। कृपया इस पत्र के जारी होने की तिथि से 10 दिनों के भीतर जमानत राशी की बकाया **रु. 2,17,990 /-** (रुपये दो लाख सत्रह हजार नौ सौ नव्वे मात्र) अदा की जाए अन्यथा निविदा दस्तावेज के कंडीशन 1(A) पेज संख्या 16 के अनुसार उक्त राशी उनके रनिंग बिल से कटौती की जाएगी।

The earnest money amount of **Rs. 97,188/-** (Rupees Ninety Seven Thousand One Hundred and Eighty Eight only) received along with your tender will be treated and converted as part of security deposit as per clause 1(A) on page 16 of tender contract document. Please deposit **Rs. 2,17,990/-** (Rupees Two Lakh Seventeen Thousand Nine Hundred and Ninety 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 bill as per condition 1(A) on page 16 of the contract document.

आपसे निवेदन है कि अनुबंध श्रमिक (विनियमन तथा उन्मूलन) अधिनियम 1970, अनुबंध श्रमिक (विनियमन तथा उन्मूलन) केंद्रीय नियम 1971, केंद्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन अवश्य करें।

You are requested to comply with the provisions of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation & abolition) Central rules 1971 and minimum wages Act & rules thereof central and state Governments.

आपको निर्देश दिया जाता है कि आप तुरंत सहायक महा प्रबंधक (अभि-विद्युत), भा.वि.प्रा, अगरतला हवाई अड्डा से सम्पर्क करें वह आपको साईट सौंपने की व्यवस्था करेंगे।

You are also directed to contact Asstt. Gen. Manager (Engg-E), AAI, Agartala Airport, immediately who will arrange to hand over the site to you.

कृपया नोट कर लें कि काम करने का अनुमत समय 06 (छह) महीना है जो कि कार्य आदेश के जारी करने के बाद दस (10) दिन से गिना जाएगा।

Please note that the time allowed for carrying out the work is **06 (Six) months**, which shall be reckoned after 10th day of issue of this order.

इस ठेके के संबंध में आने का कोई भी पत्राचार प्रभारी-अभियंता को किया जाएगा।

Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.

कृपया पावती भेजें और स्वीकृति प्रतीक के तौर पर संलग्नित पत्र की हस्ताक्षरित प्रति इस कार्यालय को अवश्य भेजें।

Contd....P/3



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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.

भवदीय/ Yours faithfully,

संलग्न/Encl: Bill of Quantities

Pages-05

(के.सी. मीना / K.C. MEENA)

उप महाप्रबंधक (अभि-विद्युत)/Dy.G.M.(Engg-E)
कृते तथा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से

For and on behalf of Chairman,
Airports Authority of India.

प्रतिलिपी / Copy to : (Via e-mail)

1. महा प्रबंधक (अभि)-प्रोजेक्ट, भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
General Manager (Engg)-Project, AAI, M.B.B. Airport, Agartala.
2. महा प्रबंधक (अभि-वि), भा.वि.प्रा., लो.गो.ब.अं. हवाई अड्डा, गुवाहाटी-15।
General Manager (Engg-E), AAI, LGBI Airport, Guwahati-15.
3. विमानपत्तन निदेशक, भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Airport Director, AAI, M.B.B. Airport, Agartala.
4. स. महा प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Asstt. General Manager (Engg.-E), AAI, M.B.B. Airport, Agartala.
5. सहायक महा प्रबंधक (वित्त), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Asstt. General Manager (F&A.), AAI, M.B.B. Airport, Agartala.
6. ब. प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Sr. Manager (Engg.-E), AAI, M.B.B. Airport, Agartala.
7. प्रबंधक (अभि-वि), भा.वि.प्रा., म.बी.बि. हवाईअड्डा अगरतला।
Manager (Engg-E), AAI, M.B.B. Airport, Agartala.

(के.सी. मीना / K.C. MEENA)

उप महाप्रबंधक (अभि-विद्युत)/Dy.G.M.(Engg-E)

BILL OF QUANTITIES

Name of work: Provision of water treatment plant for AAI colony and CISF barracks including CMC for 5 years at M.B.B Airport, Agartala.

Item No.	Items of Work	Quantity	Unit	Rate	Amount
1	SUB HEAD-I Design ,Supply Installation, testing and commissioning of 20M3/HR water treatment plant at AAI Colony MBB Airport Agartala comprising of the following. 1) Raw water Transfer Pump: 2 nos (1W+1SB) ,Type: Centrifugal Capacity 20 M3/hr. Head 30 m, Motor HP-5 hp, KW-3.7, 3 phase 415 volts +/- 10%, 50Hz, Class F DOL type TEFC .Material Of Construction-CI, Centrifugal. At a negative suction of 2 Mtrs. Including Civil Foundation . 2) NAOCl Dosing System- 1set: Comprising of following: a) Pumps: 2 nos (1W+1SB) , b) Type: Electronic Diaphragm Type C) Capacity Max. 6.0 LPH d) Back Pressure Max. 3.0 Bar . e) No. of Tank: 1 No. of capacity 100 Lts. f) material of construction of tank: LLDPE/HDFE Including Civil Foundation . 3) Supply & erection commissioning of Multi Grade filter , vertical cylindrical type with dished end , MS fabricated vessel of suitable size as per IS 2062,capacity of each filter 20.0M3/hr, operating pressure 2.5Kg/cm2, design pressure 3.5 Kg/cm2, filter media type -pebbles,Gravels,&mesh sand , back wash duration Aprox 20 minutes including MS pipeline 65mm dia as per Is-1239 -medium duty-ERW, CI butterfly valve of suitable size including 2 nos. pressure gauge 0-7 kg/cm2 Bourdon type glycerine fitted , sampling cocks filled with Sand & under bed media. The shell thickness shall be of 8mm and dished end having 10mm with bottom collecting system . Multi Grade Filter should have Red Oxide paint from out side and black bituminous paint from inside .The shell shall also be provided with adequate size of air vent line with valve etc. Including Civil Foundation . Diameter of vessel (DIA) of MGF - 1200MM, Height on Straight (HOS) - 1500MM. velocity through bed <20.0m3/hr/mt2.Internal painting MSEP.	1	Job	2001777	2001777



Item No.	Items of Work	Quantity	Unit	Rate	Amount
	4) Supply & erection commissioning of Activated Carbon Filter , vertical cylindrical type with dished end, MS fabricated vessel of suitable size as per IS-2062, capacity of each filter 20.0M3/hr, operating pressure 2.5Kg/cm2, design pressure 3.5 Kg/cm2, filter media type -pebbles, Gravels, & Activated carbon , back wash duration Aprox 20 minutes including MS pipeline 65mm dia as per Is-1239 -medium duty-ERW, CI butterfly valve of suitable size including 2 nos. pressure gauge 0-7 kg/cm2 Bourdon type glycerine fitted , sampling cocks filled with activated carbon media with iodine value 1000. The shell thickness shall be of 8mm and dished end having 10mm and under drain collecting system will be strainer . Activated Carbon filter should have Epoxy paint from inside and outside red oxide paint .The shell shall also be provided with adequate size of air vent line with valve etc. Including Civil Foundation . Diameter of vessel (DIA) of ACF - 1300MM, Height on Straight (HOS) - 1500MM. Velocity through bed <15.0m3/hr/mt2. Internal painting MSEP. Note : Test certificate for Iodine Value for Activated Carbon.				
	5) Supply & erection commissioning of Iron removal plant, vertical cylindrical type with dished end , MSEP ,MS fabricated vessel of suitable size as per IS-2062, capacity of each filter 20.0M3/hr, operating pressure 2.5Kg/cm2, design pressure 3.5 Kg/cm2, filter media type -ISR Resin , back wash duration Aprox 20 minutes once in 10 hrs , including MS pipeline 65mm dia as per Is-1239 -medium duty-ERW, CI butterfly valve of suitable size including 2 nos. pressure gauge 0-7 kg/cm2 Bourdon type glycerine fitted ,sampling cocks filled with iron Specific Resin (ISR) media (ISR/KATALOX/MZ-10/ EQUIVALENT). The shell thickness shall be of 8mm and dished end having 10mm and bottom collecting system will be strainer On plate type, Top distribution shall be invert bell mouth type with SS mesh . Iron Removal filter should have Epoxy paint from inside and outside red oxide paint .The shell shall also be provided with adequate size of air vent line with valve etc. Including Civil Foundation . Diameter of vessel (DIA) of IRF - 1300MM, Height on Straight (HOS) - 1500MM.				

Item No.	Items of Work	Quantity	Unit	Rate	Amount
	Note : Non - Toxic Test certificate for Iron Specific resin (ISR) which can take iron upto 10 ppm.velocity through bed<15.0m3/hr/mt2.Internal painting MSEP. 6) a) SITC of Electronic on line Rotometer for flow rate 20 M3/hr. including wiring of the same from power supply Panel . 7) SITC of Filtered water tank 1 number of capacity 5000 Ltrs ,material of construction of tank: LLDPE/HDFE Including Civil Foundation . 8)Treated water transfer(to overhead tank) Pump: 2 nos (1W+1SB) , Type: Centrifugal, Capacity 20 M3/hr. Head 20 mwc, Motor 2.2 KW, 3 phase 415 volts +/- 10%, 50Hz, Class F DOL type TEFC , Material of Construction CI Centrifugal. Including Civil Foundation . 9) All interconnecting 65 mm dia M.S. piping, piping supports , painting of pipes etc covered from Under ground raw water tank to overhead filter water tank .Contractor has to provide actual quantity and size (If size is above 65mm dia) required at site along with suitable valves and gauges. 10)Fabrication, Supplying, Installation, Testing & Commissioning of Electrical WTP Motor Control Panel of cubical construction, floor mounted type, fabricated out of 2mm. thick CRCA sheet, compartmentalized with hinged lockable doors, dust and vermin proof, powder coated of approved shade after 7 tank treatment process, cable alley, interconnection with solid aluminium strip / single core PVC insulated FRLS copper conductor cable, having suitable mountings for switchgears and accessories and internal control & power wiring with suitable rating PVC insulated FRLS copper conductor, earth terminals, numbering etc. complete in all respects, suitable for operation on 415 V, 3 phase 50 HZ AC supply with enclosure protection class IP 42 with 100 Amp aluminium bus bar etc complete as required. Incoming MCCB, 4 Pole, 100 A, 35 KA (ICS= ICU= 35 KA upto 415 V) including spreader terminal- 2 sets with mechanically interlocked. LED multifunction meter for Voltage, Current, Freq. & PF - 2 Sets Phase Indicating coloured LED (RYB) with control MCBs - 2 Sets				

Item No.	Items of Work	Quantity	Unit	Rate	Amount
	Bus Bar :				
	Electrolytic high conductivity aluminium three phase and neutral busbars rated at 415V, 100 amps, 50Hz, AC, insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints.				
	1) Starters for Raw water Transfer Pump(1main+1 stand By) & Treated water transfer pump(1main+1 stand By)				
	MCB 3 Pole, 40 A, 10 KA with CT operated digital Ammeter (0 - 40 A), with 3 CT's of 40/5 A, 10 VA, accuracy 1.0, ASS and coloured LED for on (Red) indication with adjustable thermal magnetic release and (ICS = 10 KA upto 433 V) with Fully Automatic DOL Starter suitable for Raw water Transfer Pump (Minimum 5 HP capacity) complete with over load protection, current sensing type single phase preventer complete with contactors, push button, indicators LED type Auto/manual selector switch all accessories and wiring etc. as required - 2 Sets				
	MCB 3 Pole, 40 A, 10 KA with CT operated digital Ammeter (0 - 40 A), with 3 CT's of 40/5 A, 10 VA, accuracy 1.0, ASS and coloured LED for on (Red) indication with adjustable thermal magnetic release and (ICS = 10 KA upto 433 V) with Fully Automatic DOL Starter suitable for Treated water transfer pump (Minimum 3 HP capacity) complete with over load protection, current sensing type single phase preventer complete with contactors, push button, indicators LED type Auto/manual selector switch all accessories and wiring etc. as required - 2 Sets				
	2) Outgoing for lighting/ fan circuit				
	MCB 2 Pole, C series, 6-32 A, 10 KA - 02 Nos				
	3) Outgoing for power circuit				
	MCB 2 Pole, C series, 6-32 A, 10KA - 02 Nos				
	4) Outgoing for rotameter				
	MCB double Pole, c Series (6-32)A, 10 KA - 02 Nos				
	5) Outgoing for float Switch-(6-32)A, SP MCB, C series, 10KA - 02 Nos				
	6) Spare - 40A TP MCB, 10KA - 02 Nos				
	7) Spare - 20A SP MCB, C series, 10KA - 02 Nos				

Item No.	Items of Work	Quantity	Unit	Rate	Amount
	8) 02 set of Electronic float switch suitable for to be positioned at 25%, 50% or 75% at Treated water tank including control wiring from treated water tank to Raw water and treated water pump starter panel including suitable control wiring and logic to start the pump in auto/manual mode whenever the level of water gets below the set point after getting signal from float switch , complete in all respect.				
	11) Supply of XLPE insulated PVC sheathed, Aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098, Part-I 1988 with up to date amendments. For Raw water pump and filtered water pump , including laying in cable tray /surface/condit/hume pipe etc as required including SITC of Cable Tray, 2 nos GI plate Earthing , Earthing strip, Cable Gland, End termination ,all power and control cable except of incoming Power supply cable up to main panel, - 1 LOT				
2	SUB HEAD-II Water Treatment Plant All inclusive Comprehensive Maintenance of the entire WTP plant after DLP as provided under the main contract including trouble shooting, preventive maintenance and breakdown maintenance, supply of all spares and consumables etc. as required as per good engineering practice, recommendation of the manufacturer, instructions of Engineer-in-Charge and as per terms and conditions specified (the response time in case of breakdown shall not be more than 8 hours).				
	First year after DLP	1	per year	225000.00	225000.00
	Second year after DLP	1	per year	225000.00	225000.00
	Third year after DLP	1	per year	250000.00	250000.00
	Fourth year after DLP	1	per year	225000.00	225000.00
	Fifth year after DLP	1	per year	225000.00	225000.00

Grand Total Rs. 3151777.00

(Rupees Thirty One Lakh Fifty One Thousand Seven Hundred and Seventy Seven only)

Kw
25/5/21
(K.C. MEENA
Dy. G. M. (Engg.-Elect)
AAI, Agartala Airport