



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

संदर्भ सं. : भाविप्रा/गो/ वप्र (अभि-वि)/का.आ.- 03/2022-23/318/436

Ref. No.: AAI/GO/SM(E-E)/W.O.-03/2022-23

दिनांक: 30.05.2022

Date: 30.05.2022

द्रुतगामी डाक द्वारा / By SPEED POST

सेवा मे, To,

M/s. Techno Electricals,

2/65, Udaypark Society,

Refinery Road, Gorwa,

Baroda, Vadodara-16

Email: girish690@gmail.com

कार्य का नाम: गोवा हवाई अड्डे पर सीवेज ट्रीटमेंट प्लांट का संशोधन ।

Name of Work: Modification of Sewage Treatment Plant at Goa Airport.

संदर्भ : आपका दिनांक 05.05.2022 को खोला गया ई-टेंडर । टेन्डर आई डी: 2022_एएआई_110592_1

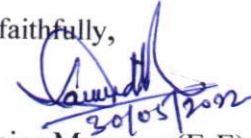
Ref: Your E-tender opened on 05.05.2022 for Tender ID: 2022_AAI_110592_1

महोदय/Dear Sir (s),

- 1) उपर उल्लेखित कार्य हेतु आपका ई-टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गये मद मूल्यों पर आपकी टेंडर राशि, कुल **₹. 11,08,063/-** (एक्सक्लूडिंग जीएसटी) (रुपये ग्यारह लाख आठ हजार त्रैसठ मात्र) है, जो कि अनुमानित राशि **₹. 12,25,600/-** (एक्सक्लूडिंग जीएसटी), से **9.59%** नीचे है।
- 1) Your E-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. 11,08,063/- (excluding GST)** (Rupees Eleven Lakh Eight Thousand Sixty-Three Only), which is **9.59% Below** the estimated cost put to tender of **Rs.12,25,600/- (excluding GST)**.
- 2) वरिष्ठ प्रबंधक (अभि-वि), भा.वि.प्रा., गोवा एयरपोर्ट इस कार्य के प्रभारी अभियंता होंगे । आपसे निवेदन है कि आप करारनामे पर हस्ताक्षर करने के लिए दिनांक: 06.06.2022 तक वरिष्ठ प्रबंधक (अभि-वि), भा.वि.प्रा गोवा एयरपोर्ट के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा 100/- रु (रुपये एक सौ मात्र) के नॉनजुडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा
- 2) **Senior Manager (Engg.-E)**, AAI, Goa Airport shall be the **Engineer-in-charge** of the work. You are requested to attend the office of Senior Manager (Engg-E), AAI, Goa Airport, Goa, by **06.06.2022** to sign and complete the contract 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.

- 3) कृपया इस पत्रके जारी होने की तिथि से 10 दिनों के भीतर जमानत राशि **₹. 1,10,806/-** (रुपये एक लाख दस हजार आठ सौ छह मात्र) जमा करें। अन्यथा ठेके के दास्तावेज के पृष्ठ SSC-1 पर दी गई शर्त 1 के अनुसार काट ली जायेगी।
- 3) Please Deposit **Rs. 1,10,806/-** (Rupees One Lakh Ten Thousand Eight Hundred Six Only), towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per condition of SCC Clause- 1 at page no. SCC-1 of contract document.
- 4) आपसे निवेदन है कि अनुबंध श्रम (विनियम और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार का नियमन और सेवा की शर्त) अधिनियम 1986, भवन और निर्माण श्रमिक कल्याण उपकरण अधिनियम 1996 के अनुसार निविदा जी सी सी और केंद्रीय और राज्य सरकार के भवन और निर्माण कल्याण उपकरण अधिनियम 1996 के पृष्ठ सं 49 पर खंड 19 में विनिर्दिष्ट है।
- 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 Child Labour (Prohibition & Regulation) Act 1986, Construction Workers (Regulation of Employment and Condition of Service) Act 1996, Building and other Construction Workers Welfare Cess Act 1996 as specified in Clause 19 on page no 49 of GCC of tender and rules of Central and State Government.
- 5) आपको निर्देश दिया जाता है कि आप तुरंत **कनिष्ठ कार्यपालक (अभि-वि)**, भाविप्रा., गोवा एयरपोर्ट से मिले, वह आपको साइट सौंपने की व्यवस्था करेंगे।
- 5) You are also directed to contact **Jr. Executive (Engg-E)**, Airports Authority of India, Goa Airport immediately who will arrange to hand over the site to you.
- 6) कृपया नोट कर लें कि काम करने की अवधि **03 (महीने)** है, जो कि कार्य आदेश जारी करने के बाद दस (10) दिन से गिना जायेगा।
- 6) Please note that the time allowed for carrying out the work shall be **03 (Three) Months**, which shall be reckoned after 10th day of issue of this order.
- 7) इस ठेके के संबंध में सभी पत्राचार प्रभारी अभियंता, को सम्बोधित किया जाये।
- 7) Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.
- 8) कृपया स्वीकृति के प्रतीक के रूप में इस पत्र के साथ संलग्न दूसरी प्रतिलिपी में हस्ताक्षर करने के बाद अधोहस्ताक्षरी को 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.

भवदीय/ Yours faithfully,



वरिष्ठ प्रबंधक (अभि-वि) / Senior Manager (E-E)

भा.वि.प्रा., गोवा विमानतल /AAI, Goa Airport.

कृते तथा ओर से, अध्यक्ष, भा.वि.प्रा./For and on behalf of Chairman, AAI

संलग्न/Encl: SOQ (Schedules of Quantities) / एस ओ क्यु

Schedule of Quantity

Name of Work : Modification of Sewage Treatment Plant at Goa Airport.

Sl. No.	Description of Item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	Providing and fixing of ISI Marked UPVC/HDPE pipes including all UPVC/HDPE plain & brass threaded fittings and attachments like elbow, tee, socket, union, coupler etc. This includes cutting of existng pipes, jointing of pipes & fittings with one step UPVC/HDPE solvent cement and testing of all required joints etc complete as per direction of Engineer in Charge.				
1.1	50 mm Dia.	6	mtr	350.00	2100.00
1.2	65mm Dia	30	mtr	550.00	16500.00
1.3	80mm Dia	12	mtr	650.00	7800.00
2	Supply, installation, and testing of centrifugal, monoblock, pump & motor set to transfer filtered water from UF tank to pipeline connecting gardening area with following specifications . A) Head range -- 17 -30mtrs, b) Mini discharge Capacity --- 25 K ltrs/hr, c) Minimum capacity of motor -- 5HP, d) mini RPM -- 2800, e) suction/delivery pipe dia. -- 80mm/80mm, f) Impeller--cast iron , g) Motor body --Cast iron , h) Power supply--3 Phase, 415v+ 10% ,etc. with Concrete foundation all necessary accessories etc as required complete as per direction of Engineer in Charge.	2	Each	35000.00	70000.00
3	Supply , Installation and testing of Self-Priming Monoblock Sludge Recirculation pump & motor set to transfer sludge from lamella clarifier tank to MBBR tank with following specifications. a) Head range --10-16 mtrs, b) discharge Capacity --- 20K ltr/ hr, C) Minimum capacity of motor --- 2HP, d) Mini RPM --- 2800, e) suction/delivery pipe dia -- 40/40mm, f) Impeller--Cast iron, g) Motor body --Cast iron, h) 3 Phase Power supply -- 415v_+ 10%,50 Hz Concrete foundation necessary removable type enclosure for rain protection including all necessary accessories etc as required complete as per direction of Engineer in Charge.	2	Each	22000.00	44000.00
4	Supplying , replacement of Ball valve (metal Valve) of size 1" in existing suction pipeline of filter feed pump as required.	2	Each	1500.00	3000.00
5	Providing and fixing medium class ISI Marked 80mm Size G.I. pipe and G.I. fittings like elbow, tee, socket, union, coupler , reducers etc. for suction and interlinking of delivery branch suitable for centrifugal, monoblock pumps mentioned in item no. 2 .This includes jointing of pipes & G.I. fittings like elbow, tee, union etc and making suitable size holes in wall as required complete as per direction of Engineer in Charge.	8	mtr	1000.00	8000.00
6	Dismantling of old pipeline and providing and fixing of medium class ISI Marked 65 mm G.I. pipe and G.I. fittings like elbow, tee, socket, union, coupler , reducers etc. for interlinking in existing pipeline of MGF & ACF .This includes jointing of pipes & G.I. fittings like elbow,tee,union etc as required complete as per direction of Engineer in Charge.	6	mtr	850.00	5100.00
7	Supply of C.I. butterfly valves of size 50 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with nuts, bolts, gasket etc. complete as required .	3	Each	3500.00	10500.00
8	Supply of C.I. butterfly valves of size 80 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with nuts, bolts, gasket etc. complete as required .	4	Each	6500.00	26000.00

Sl. No.	Description of Item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
9	Supplying, Installing, testing and commissioning of C.I. butterfly valves of size 65 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with required suitable size UPVC flanges, nuts, bolts, gasket etc. with proper inter connection including all necessary accessories complete as per direction of Engineer in Charge.	3	Each	5500.00	16500.00
10	Dismantling of old CI valves and supplying and installation of C.I. butterfly valves of size 65 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with nuts, bolts, gasket etc. in existing GI pipeline of ACF & MGF with proper inter connection including all necessary accessories complete as per direction of Engineer in Charge.	3	Each	7000.00	21000.00
11	Supplying, Installing, testing and commissioning of C.I. butterfly valves of size 80 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with required G.I. flanges, nuts, bolts, gasket etc. with proper inter connection including all necessary accessories and fixing these valves with G.I threaded pipe fittings complete as per direction of Engineer in Charge.	5	Each	7500.00	37500.00
12	Supplying, Installing, testing and commissioning of C.I. butterfly valves of size 65 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with required G.I. flanges, nuts, bolts, gasket etc. with proper inter connection including all necessary accessories. This includes cutting of existing 65 mm uPVC pipe (which is delivering treated water to UF system) and fixing these valves with Brass threaded pipe fittings complete as per direction of Engineer in Charge.	2	Each	7500.00	15000.00
13	Supplying, Installing, testing and commissioning of C.I. butterfly valves of size 50 mm with S.G. Iron Disc. conforming to BS 5155 (PN 1.6) having Pressure /class /rating : PN16/PN10 , slim seal standard lever operated type with required G.I. flanges, nuts, bolts, gasket etc. with proper inter connection including all necessary accessories and fixing these valves with G.I threaded pipe fittings complete as per direction of Engineer in Charge.	2	Each	8000.00	16000.00
14	Supplying, installing, testing and commissioning of C.I. Dual plated Non-return valves PN 1.6 having Pressure /class /rating : PN16/PN10 & as per IS:5312 reflux swing check type with required flanges, nuts, bolts and gaskets etc. suitable for centrifugal,monoblock pump mentioned in item no. 2 for fixing the start of the delivery of the pump as required.	2	Each	7500.00	15000.00
15	Supply and installation of Dial type glycerine filled pressure gauge with isolation having range of 0-10 Kg./sq.cm together along with ball valve of 15 mm and GI Barrel Nipples.	1	Each	5000.00	5000.00
16	Supply and replacement of lubrication grade oil for air blower of 11 KW rating , capacity 460 m3/hr as per recommended by O&M Manufacturer beta Maschinenfabrik as required.	1	Job	4500.00	4500.00
17	Supply, fixing of 25 Amps 3 pole D-curve MCB DOL starter with OLR with built in single phase protection in existing electrical panel for providing supply to existing pumps complete as per direction of Engineer in Charge.	4	Each	3500.00	14000.00
18	Supply of 4C x 4 sq. mm. size LT power cable of 1.1 KV grade Copper conductor XLPE insulated PVC sheathed armoured cable confirming to IS 7098 Part I-1988 with upto date amendment as required.	30	mtr	300.00	9000.00
19	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. Upto 35 sq. mm (clamped with 1mm thick saddle).	30	mtr	50.00	1500.00
20	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/submain wiring/ cable as required.	30	mtr	30.00	900.00

Sl. No.	Description of Item	Qty	Unit	Rate (Rs.)	Amount (Rs.)
21	Supply and Replacement of MBBR Media of existing 300 KLD sewage treatment plant with 6 Meter Cube Mushroom type media including cleaning of both the tanks, removal of any blockage in pipelines etc. upto satisfaction of Engineer Incharge complete as required.	1	Job	105000.00	105000.00
22	Supply and Replacement of Clarifier Plates Media of existing 300 KLD sewage treatment plant with suitable Size PVC plate type media which includes cleaning of tank , removal of any blockage in pipelines etc. upto satisfaction of Engineer Incharge complete as required.	1	Job	100000.00	100000.00
23	Overhauling, servicing, replacing of media, strainers and commissioning of Multi-grade filter having down type flow of size 1200mm x 1500 mm height for treatment of clarified water tank of the STP complete upto satisfaction of Engineer Incharge complete as required. .	1	Job	4000.00	4000.00
24	Overhauling, servicing, replacing of media, strainers and commissioning of Activated Carbon Filter having down type flow of size 1200mm x 1500 mm height for filtration of treated sewage water complete upto satisfaction of Engineer Incharge complete as required.	1	Job	5000.00	5000.00
25	Supply and installation of Micron Cartridge Filter of capacity 12.5 cum/hr, rating 100 micron, MOC: Sponge type cartridge filter for PLC based Ultra Filtration system installed for STP.	4	Each	25000.00	100000.00
26	Supply and fixing of Acrylic body Rotameter between existing sewage line and MBBR tank of flow range 0-15000LPH having float material made of SS-304/SS-316 and end connection threaded of SS-304/SS-316 complete as per direction of Engineer in Charge.	1	Each	15163.00	15163.00
27	Servicing, dismantling, re-fixing, testing and commissioning of the existing UF hollow fiber membrane (MOC Polyether Sulfone (PES)) of Make-Qua , Model - Q SEP-6008 having permeate capacity of 12.5cum/hr, inside out flow path, max feed pressure 70PSI and this includes chemically enhanced backwash procedure, a combination of chemicals like citric Acid, Sodium Hypochlorite, Sodium Hydroxide , Sulfuric Acid, Hydrochloric Acid of PLC based Ultra Filtration system installed for STP complete as per direction of Engineer in Charge.	4	Each	80000.00	320000.00
28	Supply and replacement of Existing Air grid Line of Equalization tank and MBBR tank of existing 300 KLD sewage treatment plant by new 4 inch diameter size UPVC/HDPE grid line including all Values , air flow meter , Air Diffusors, fabrication , installation etc. . The work includes removal of sludge from tanks upto satisfaction of Engineer Incharge complete as required.	1	Job	110000.00	110000.00
				Total	1108063.00

SM (Engg-E)
AAI, Goa Airport, Goa