



भारतीय विमानपत्तन प्राधिकरण
Airports Authority of India



ए.ए.आई/ए.टी/इंजी(इ)/अवार्ड-12/2020-21 /102-109/
AAI/AT/ENGG(E)/AWARD-12/2020-21

25/03/2021

सेवा में / To,

मेसर्स / M/S Color Design India,
A-601, Navin Apartment,
Plot No.-13, Sector-5, Dwarka,
New Delhi-110075 .

कार्य का नाम/Name of Work: एनआईटीबी अगरतला एयरपोर्ट, अगरतला में पंप, फिल्टर, मशरूम नोजल, यू स्टैंड एलईडी लाइट आदि सहित मौजूदा जल निकायों में बाहरी और आंतरिक फव्वारे का प्रावधान / Provision of External and Internal fountain in existing water bodies i/c provision of pumps, filters, Mushroom nozzles, U stand LED lights etc at NITB Agartala Airport, Agartala.

टेंडर आई डी संख्या/Tender ID No.: 2021_AAI_70837_1

संदर्भ/Ref.: i) Financial bid opened on 17.03.2021.

महोदय /Dear Sir,

उपर 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. 72,67,999/-** (रु. बहत्तर लाख सड़सठ हजार नौ सौ निन्यानवे मात्र), (जीएसटी को छोड़कर) जो कि टेंडर की अनुमान राशी रु. 93,78,387 /- से 22.50% 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.72,67,999/-** (Rupees Seventy Two Lakh Sixty Seven Thousand Nine Hundred and Ninety Nine only), (Excluding GST) which is 22.50% below the Estimated cost put to tender of Rs. 93,78,387/-.

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 18-04-2021 तक उप महाप्रबंधक (अभि-विद्युत), अगरतला के कार्यालय में उपस्थित हों। ठेके का कशरनामा रु. 100/- (रु. एक सौ) मात्र के नॉनजुडीशियल 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 **18-04-2021** 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 धरोहर राशी **रु. 1,87,568/-** (रुपये एक लाख सत्तासी हजार पांच सौ अड़सठ 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. 5,39,232 /-** (रुपये पांच लाख उनतालीस हजार दो सौ बत्तीस 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. 1,87,568/-** (Rupees One Lakh Eighty Seven Thousand Five Hundred and Sixty 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. 5,39,232/-** (Rupees Five Lakh Thirty Nine Thousand Two Hundred and Thirty Two 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 **02 (दो) 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 **02 (Two) months**, which shall be reckoned after 10th day of issue of this order.

इस ठेके के संबंध में आगे 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।

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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

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(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.

BILL OF QUANTITIES

Name of work: Provision of External and Internal fountain in existing water bodies i/c provision of pumps, filters, Mushroom nozzles, U stand LED lights etc at NITB Agartala Airport, Agartala.

Item No.	Items of Work	Quantity	Unit	Rate	Amount
1	Filter				
1.1	SITC of Dia 1200mm(48") Bobbin Wound Fibre Glass anti corrosive sand filter with 2" MPV and necessary accessories such as pressure gauge, manual air vent, manual water drain etc., Filtration Velocity 25 m ³ /hr/m ² Maximum working pressure : 2.5 Bar Flow rate = 25 m ³ /hr	2	Nos.	202230.00	404460.00
	FILTER MEDIA				
1.2	SITC of Grade 1 Eco Glass Filter Media- Per 25 Kg.	72	Nos.	950.00	68400.00
1.3	SITC of Grade 3 Eco Glass Filter Media- Per 25 Kg.	24	Nos.	650.00	15600.00
	Recirculation Pump				
1.4	SITC of centrifugal self priming pump with high hydraulic efficiency, chemical resistant and ultra quiet operation. Each pump integrated along with IP-55 protection- class F continuous rating. Pump shall be of one piece body of durable composite material, with SS Shaft and mechanical seal. Also have large capacity strainer with fast opening translucent lid. Impeller : Plastic impeller Horse power : 3.0 HP Phase : 1 phase 220v 2.25 kw Flow rate = 25 m ³ /hr @ 13m water head.	4	Nos.	80407.00	321628.00
	Submersible Pump for stream nozzle				
1.5	Supply, installation, testing & commissioning of Submersible Openwell Type Pump 5 HP ,3 PH for the sheet fall. (2 Working + 1 stand by), flowrate of 21.5 LPS @ 10 Mtrs head, including all necessary indigenous accessories as required to complete the installation. (Make:- Crompton / Kirloskar/ Lubi)	3	Nos.	32400.00	97200.00
	Submersible Pump for cascade nozzle				
1.6	Supply, installation, testing & commissioning of Submersible Openwell Type Pump 7.5 HP ,3 PH for the Cascade nozzles of suitable flowrate. (2 Working + 1 stand by), flowrate of 27 LPS @ 12 Mtrs head, including all necessary indigenous accessories as required to complete the installation.	9	Nos.	41600.00	374400.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
	Submersible Pump for waterfalls				
1.7	Supply, installation, testing & commissioning of Submersible Openwell Type Pump 7.5 HP ,3 PH for the Cascade nozzles of suitable flowrate. (2 Working + 1 stand by) , flowrate of 27 LPS @ 12 Mtrs head, including all necessary indigenous accessories as required to complete the installation.	3	Nos.	41600.00	124800.00
2	Main Drain for cascade nozzle				
2.1	SITC of Main Drain Grille & Frame Only 300x300x1.5 On commercial or shallow pool application stainless steel main drain must be used. Main drain must be arranged so that there is no risk of bathers being drawn towards them or trapped there. It is recommended that a minimum of 2 X Main drains are installed 2 metres apart. All Flow rates listed do not exceed 0.5 m/s velocity.Flow rate : 43 m3/h	6	Nos.	12215.00	73290.00
	Vacuum Point				
2.2	SITC of Vacuum Point & Plug - ABS - 2" / 1 1/2" threaded connection The vacuum point are used to connect the pool cleaner.	21	Nos.	4325.00	90825.00
	Return Inlet				
2.3	SITC of Wall/ Floor Inlet - ABS-2" threaded connection The return inlets filtered , threatened water to the pool.They include the multifold system , which allows the diameter ,and therefore the flow rate of the water through the inlets.Flow 12m3/h	36	Nos.	995.00	35820.00
	Mushroom/Cascade Nozzle				
2.4	SITC of Mushroom nozzle - AISI316 Stainless Steel . Flow rate: 50 LPM	75	Nos.	9500.00	712500.00
	Wall conduit				
2.5	SITC of Wall Conduit with 2" Push Fitting are used to aid the installation of vacuum point.They are adaptable in length for easier installation of concrete pools	18	Nos.	2450.00	44100.00
	Stainless steel (316 grade) Waterfalls				
2.6	SITC of 300mm Waterfall. Flow rate: 50 LPM	23	Nos.	32802.00	754446.00
	Diffuser Header Assembly for Sheet fall .				
2.7	SITC of pvc diffuser header assembly for water sheet fall effect.	4	Nos.	22500.00	90000.00
3	Chemical Dosing Pump				
3.1	SITC of 5 lit@7 bar metering dosing pump	4	Nos.	28200.00	112800.00
3.2	SITC of 100 litre dosing tank	4	Nos.	9500.00	38000.00
3.3	SITC of Manual Agitator Shaft Length 600mm	4	Nos.	30900.00	123600.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
4	Underwater Light				
4.1	Supplying, installing, testing and commissioning of U stand LED lights, in stainless steel fixture, 12 / 24 V supply, fixed to wall with plugs & screws, complete with toughened glass cover, 9 w, 2.5 M flexible cable, for waterfall.	35	Nos.	13987.00	489545.00
	Transformer				
4.2	SITC of Transformer / power supply 12V / 24 V output.	10	Nos.	6500.00	65000.00
5	Maintenance equipment				
	Vacuum Hose				
5.1	SITC of 1.5" (38mm) Floating Hose Spiralwound 2 color - 12 Metre	2	Nos.	5500.00	11000.00
	Wall Brush				
5.2	SITC of 18" Plastic/Aluminium Brush	3	Nos.	1734.00	5202.00
	Algae brush				
5.3	SITC of 5" Steel Algae Brush	3	Nos.	1450.00	4350.00
	Deep Net				
5.4	SITC of Deep Net	3	Nos.	1950.00	5850.00
	Flat Net				
5.5	SITC of Flat Net	3	Nos.	1250.00	3750.00
	Telescopic Pole				
5.6	SITC of 8 - 16' Aluminium Telescopic Handle -	3	Nos.	4443.00	13329.00
	Vacuum Head				
5.7	SITC of Vacuum Head Flexible with Swivel +Spring Clip Handle	2	Nos.	4250.00	8500.00
	Corner Brush				
5.8	SITC of Corner brush	3	Nos.	950.00	2850.00
	Test Kit Make				
5.9	SITC of Pool ID 5 in 1 packaged	3	Nos.	1165.00	3495.00
6	Interconnecting and Piping and valves for the complete system in UPVC schedule 40. the piping, valving shall complete with all required fittings like Tee, elbow, union, NRV, ball valve, butterfly valve (If required) complete in all respect. For Left Hand side External Fountain	1	Lot	245000.00	245000.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
7	Interconnecting and Piping and valves for the complete system in UPVC schedule 40. the piping, valving shall complete with all required fittings like Tee, elbow, union, NRV, ball valve, butterfly valve (If required) complete in all respect. For Right Hand side External Fountain	1	Set	265000.00	265000.00
8	Supply, installation. Testing and commissioning of electrical control panel for the auto operation of the system as mentioned above. For Left Hand side External Fountain	1	Set	95000.00	95000.00
9	Supply, installation. Testing and commissioning of electrical control panel for the auto operation of the system as mentioned above. For Right Hand side External Fountain	1	Set	95000.00	95000.00
10	Supply, installation, testing & commissioning of cabling, cable tray, earthing complete in all respect. For Left Hand side External Fountain	1	Lot	125000.00	125000.00
11	Supply, installation, testing & commissioning of cabling, cable tray, earthing complete in all respect. For Right Hand side External Fountain	1	Set	125000.00	125000.00
12	CORE CUTTING 150MM WALL THICKNESS				
12.1	65MM	62	NOS	350.00	21700.00
12.2	100MM	58	NOS	450.00	26100.00
12.3	200MM	9	NOS	1200.00	10800.00
13	Sealing / Waterproofing of corecuts :- using swelling bar tape (Technonicol) alongwith polymer based compound added to the filling concrete. This to be top finished / cured with dual layer of polymer compound make CICO / FOSROC / Dr. FIXIT.				
13.1	65MM	62	NOS	65.00	4030.00
13.2	100MM	58	NOS	95.00	5510.00
13.3	200MM	9	NOS	225.00	2025.00
14	Surface Chasing :- to insert the pipes for the fountain nozzles, we shall chase the floor by manual tools and tackles.	645	SFT	165.00	106425.00
15	Screed Filling :- To fill the chased surface of the waterbody floor with screed of ratio 1:2:4 upto the desired levels manually or mechanically.	225	CFT	699.00	157275.00
16	Waterproofing of chased surface and also on top of screeding: surface to be waterproofed using polymer based compound of make CICO / FOSROC / Dr. FIXIT. Three coats of this compound with cement shall be applied alongwith heavy fiber reinforcement., as per manufacturers specification.	1290	SFT	195.00	251550.00
17	CIVIL items for the plumbing / piping :- Complete civil works for the plumbing pipes, etc. including excavation, honching of pipes with pcc (1:4:8), and soil filling.	2	L.S.	320000.00	640000.00
18	Valve box :- SITC of PVB / PIMTAS valve box of dia 10 inches to hold the control valves.	56	Nos	2400.00	134400.00

Item No.	Items of Work	Quantity	Unit	Rate	Amount
19.	Auto Sump Pump: To supply and install a suitable automatic sump pump in the plantroom sump to discharge any water out of exigency. This is good for the safety of pumps, etc. Discharge 9 M3 @ 4 Mtrs head with 35 mm solid handling	2	NO	12500.00	25000.00
20	Filter				
20.1	SITC of 15 micron cartridge filter with 1.5" pipe connection and necessary accessories such as pressure gauge, manual air vent, manual water drain etc., Filtration Velocity 25 m ³ /hr/m ² Maximum working pressure : 2.5 Bar Flow rate = 17 m ³ /hr	1	Nos.	104927.00	104927.00
	Recirculation Pump				
20.2	Supply, installation, testing & commissioning of Submersible Openwell Type Pump 1 HP ,3 PH for the Filtration, (1 Working + 1 stand by) , flowrate of 4.8 LPS @ 8 Mtrs head, including all necessary indigenous accessories as required to complete the installation.	2	Nos.	19000.00	38000.00
21	Chemical feeder				
21.1	SITC of Chlorine / Bromine In line feeder .	1	Nos.	79000.00	79000.00
22	Underwater Light				
22.1	Supply, installation, testing & commissioning of Under water round fountain light for Cascade Fountain , 12/24 V 12 W LED lights, nozzle mounted as per approved by Architect.	19	Nos.	15500.00	294500.00
23	Interconnecting and Piping and valevs for the complete system in UPVC schedule 40. the piping, valving shall complete with all required fittings like Tee, elbow, union, NRV, ball valve, butterfly valve (If required) complete in all respect. Make Supreme / Prince / Finolex for internal fountain	1	Lot	54442.00	54442.00
24	Supply, installation. Testing and commissioing of electrical control panel for the auto operation of the system as mentioend above. For internal fountain	1	Set	18900.00	18900.00
25	Supply, installation, testing & commissioning of cabling, cable tray, earthing complete in all respect. For Internal fountain	1	Lot	21500.00	21500.00
26	Screed Filling :- To fill the waterbody floor by screed ratio 1:2:4 upto the desired levels by manually or mechanically.	325	CFT	699.00	227175.00
				Grand Total Rs.	7267999.00

(Rupees Seventy Two Lakh Sixty Seven Thousand Nine Hundred and Ninety Nine only)


(K.C. MEENA)

Dy. G. M. (Engg.-Elect)
AAI, Agartala Airport