



भारत सरकार

GOVT. OF INDIA

पत्तन, पोत परिवहन और जलमार्ग मंत्रालय

Ministry of Ports, Shipping & Waterways

भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

INLAND WATERWAYS AUTHORITY OF INDIA

Pandu Port Complex, Pandu, Guwahati – 781 012, Assam

Phone :- 0361-2676925, 2676929, 2570099

Email :- dirguv.iwai@nic.in

Website :- www.iwai.nic.in

No. IWAI/GHY/Alaknanda/4(133)/2022-23/ 1358

3rd September 2022

To

M/s Krishna Engineering Works & Consultants,
81/11, Shastri Nagar,
Meerut, UP – 250 004,

Sub:- Award of work for “Annual-afloat repair of CSD Alaknanda at Pandu, Guwahati” – reg.

Ref:- 1. NIT No.: IWAI/GHY/Alaknanda/4(133)/2022-23
2. Your E-Bid No.2636466, dt 22.8.2022

Sir,

Inland Waterways Authority of India (IWAI), RO Guwahati is pleased to award the work for “Annual-afloat repair of CSD Alaknanda at Pandu, Guwahati” at a total cost of **Rs 24,22,233/-** (Rupees Twenty four lakh twenty two thousand two hundred and thirty three only) including Labour Charges & Cost of Spares and GST 5% extra as applicable in accordance with the terms & conditions of the contract. Details Bill of quantity is attached as Annex – 1.

2. It is requested to deposit an amount of **Rs. 1,21,112/-** (Rupees One lakh twenty one thousand one hundred and twelve only) i.e., 5% of the contract value of the work either in the form of RTGS / NEFT through scheduled / nationalized banks in favour of “IWAI FUND PLAN” payable at Guwahati (or) in the form of irrevocable bank guarantee of any scheduled bank towards Performance Guarantee within 15 days from the issue of this letter as per **Clause 3** of General Conditions of Contract (GCC). In addition to the above, a security deposit equivalent to 5% of the contract value (i.e **Rs. 1,21,112/-**) (Rupees One lakh twenty one thousand one hundred and twelve only) will be deducted from your 1st RA bills as per **Clause 4** of the General Conditions of Contract.

3. The payment shall be made as per the Bill of Quantity on satisfactory completion & certification of the items of works by EIC (or) his authorized representative. While submitting the bills, you have to indicate GST also, which may be paid by this office as per norms.

4. Time is the essence of this work. The whole work has to be completed within a period of **30 days** from the date of handing over the vessel. The work has to be completed as per Tender terms & conditions.

5. The total cost of spares for all items shall be paid as per the quoted rate (or) on an actual basis whichever is lesser. Submission of Proper GST bills in support of the purchase of spares is mandatory along with challan. The old spares replaced shall also be returned to IWAI.

6. Director, IWAI, Guwahati shall be the Engineer-In-Charge for the subject work.

7. It is requested to acknowledge the receipt of this work order and attend this office along with two non-judicial stamp papers of Rs. 100/- to enter into an agreement.

Yours faithfully,

Encl.: as above


(A. Selvakumar)

Director

E-mail: aselvakumar.iwai@nic.in

Phone:- 0361-267692

Copy for information to (by E-mail):-

1. The Hy. Chief / Chief Engineer (Tech.), IWAI, Noida
2. The Director (Marine), IWAI, Noida
3. The Accounts Officer, IWAI, Guwahati

Head Office :- I.W.A.I., A - 13, Sector - 1, NOIDA - 210 301 (U.P.)

• E-mail :- iwainoi@nic.in • Phone No :- 0120-2543972, 2543973, 2544004, 2521664, 2544036, 2522971.

BOQ for Annual afloat repair of CSD Alaknanda

#	Item Description	Quantity	Units	Rate	Amount
1.00	A.C/D.C electrical lines,switch boards, motors, alternator,deck light , dimmer light, battery charger, Operator cabin engine panel board, deck panel board indication light, operating pannels of wheel house & engine room as per sample/ Drawing to be checked and repaired.If requiered then replaced as per drawing.				
1.01	Labour and consumable charges	1	No	25000.00	25000.00
1.02	Cost of spare/material actual + 10%				
2.00	Hydraulic system, solenoid valve, control room gauges and emergency hydraulic system to be checked, calibrate & repair whenever leakage of Hy. Oil during the testing/calibration of hydraulic pipelineas per drawing. If required then replaced as per drawing.				
2.01	Labour and consumable charges	1	No	75000.00	75000.00
2.02	Cost of spare/material actual + 10% basis				
3.00	Electrical air horn, Make: FLIPS to be checked and rectified the defect/renewed (if required).				
3.01	Labour and consumable charges	1	Comp Job	5000.00	5000.00
3.02	Cost of spare/material actual + 10% basis				
4.00	22 nos.manhole cover,10 nos.Rubber hatches, 08 noswater tight door/wooden doors, 02 nos water bllast tank (18.12 mtrs qub), 2 nos fuel oil tank1 (25.87mtrs qub),2 nos fuel oil tank2 (15.53 mtrs qub),2 nos fresh water tank (10.35 & 5.18 mtrs qub respect.) sewage tank to be renewed and tightened as per drawing with studs & bolt including labour,material & consumable charges				
4.01	Labour and consumable charges	1	No	25000.00	25000.00
4.02	Cost of spare/material actual + 10% basis				
5.00	01 no door lock, window glass cabin, Shore supply pannel box (Dim. 500* 400* 300mm), 01 wash basin tap, wash basin drain pipe,Wooden Battery box (Dim. 1420* 950* 800mm), shofa is damaged and same to be repair as per Drawing.				
5.01	Labour and consumable charges	1	No	35000.00	35000.00
5.02	Cost of spare/material actual + 10% basis				
6.00	04 nos Fire hydrant valve (65NB) is to be repaired. 03 nos coupling missing and same to be required replacement as per drawing/sample.				
6.01	Labour and consumable charges	1	No	20,000.0	20000.00
6.02	Cost of spare/material actual + 10% basis				
7.00	04 Nos quick closing valve(80NB), 02 Nos quick closing valve(25NB),01 No quick closing valve (50NB),01 No quick closing valve(32NB),[Make: Cast Steel] are not working and same to be make operational as per sample/drawing.	1	No	48000.00	48000.00
8.00	Navigational Dredge profile computer, Make: DAMEN, Model:17" TFT is not working and same to be replaced	1	No	200000.00	200000.00
9.00	03 Nos. Fire bucket (09 ltrs) stand is broken and same to be repaired.	1	No	15000.00	15000.00

	Item Description	Quantity	Units	Rate	Amount
10.00	Top Overhauling of Main Engine, Make:Cummins, Modal; KTA-38-M2, Sr. no of Machinery: 25344148, capacity/Power: 1200 BHP, Speed:1800RPM, Total Ruuning Hours:5070hrs last 03 years with check all fitted safety system like RPM meter, lub oil temp meter, lub oil pressure meter, water temp. mtrs & their sensor etc)as per OEM/operation & maintenace manual.				
10.01	Labour and consumable charges	1	No	45000.00	45000.00
10.02	Cost of spare/material actual + 10% basis				
11.00	Top Overhauling of Aux.Engine, Make:Cummins, Modal; KTA-19-D M1, Sr. no of Machinery: 25344819, Capacity/Power: 550BHP, Speed: 1500RPM, Total Ruuning Hours:7025hrs last 03 years with check all fitted safety system like RPM meter, lub oil temp meter, lub oil pressure meter, water temp. mtrs & their sensor etc) as per OEM/operation & maintenace manual.				
11.01	Labour and consumable charges	1	No	35000.00	35000.00
11.02	Cost of spare/material actual + 10% basis				
12.00	Complete/Major Overhauling of Generator Engine Make: Kirloskar,Modal 4R1040T, Sr. no of Machinery: 4H.3421/0920070, Capacity/Power: 82BHP, Speed: 1500RPM, Total Ruuning Hours:13250hrs last 03 years to be done including water level sensor, battery senor with all electronic system & safety systems i.e temperature meter, techometer, Gauges and leakage from turbo charger, etc as per OEM/operation & maintenace manual.				
12.10	Labour and consumable charges	1	No.	60000.00	60000.00
12.20	Cost of spare/material actual + 10% basis				
13.00	The inter coolers of main & Aux. engine to be taken out, tube checked, cleaned and pressure tested, same to be fitted back after servicing with labour & materials as per drawing [The inner coolers of main & Aux. engine to be pressure tested 1.5 times of working pressure.the working pressure apprx.10 bar]				
13.01	Labour and consumable charges	2	No.	12500.00	25000.00
13.02	Cost of spare/material actual + 10% basis				
14.00	Complete overhaul of Grease pump, Make:Simpson, Capcity: 1 BHP including motor to be repaired and ensuring free passage in all distribution lines including as per drawing.				
14.01	Labour and consumable charges	2	No.	7500.00	15000.00
14.02	Cost of spare/material actual + 10% basis				
15.00	Flushing pump/Gland cooling pump, Make: Burhani,Type:65 mtrs cubic /hrs body found cracked and same to be replaced and make operational up to standard pressure, replaced pully,belt,bearing ,shaft, bush, if required.				
15.01	Labour and consumable charges	2	No.	7500.00	15000.00
15.02	Cost of spare/material actual + 10% basis				
16.00	Hydrophore pump,Make:BE Pump, Mode/ Type: A02110K-1B-MS3-WCE, Capcity:0.8cum/hr @ 2.50 bar,Suction pressure gauge -1 to 1Kg/cm2, is not working properly and same to be repaired including motor, pump & also servicing of starter as per drawing. Discharge pressure gauge 0 to 4 Kg/cm2 required to replace with new one.				
16.01	Labour and consumable charges	1	No.	10000.00	10000.00
16.02	Cost of spare/material actual + 10% basis				

	Item Description	Quantity	Units	Rate	Amount
17.00	Repair and servicing of 02 Nos. side anchor winch with motor (Dia:29mm*100mtr), Braking Strength upto 560KN, 01 No. Cutter ladder (Dia:29mm*100mtr, Brk Strength: 560KN), 02 Nos. Ladder Gantry stay wire, (Dia:32mm*6.61mtrs, Brk Strength:720KN) with pulley and cutter ladder winch hydraulic ram seal and break shoes required to checked & repaired as per drawing. Both spud lowering and hoisting wire/rope to be load tested upto 560KN. If Required then replaced as per sample/ drawing.				
17.10	Labour and consumable charges	1	No	20000.00	20000.00
17.20	Cost of spare/material actual + 10% basis				
18.00	Major Overhauling of both air compressor, Make:- Atlas Copco, Model No-LT7-30 KE, Capacity: 20 cum/hr @ 30 to be repaired as per drawing.				
18.01	Labour and consumable charges	2	No	7500.00	15000.00
18.02	Cost of spare/material actual + 10% basis				
19.00	Dredge pump discharge bend pipe (450 mm dia) on upper deck attached with pump and nozzle to be fabricated as per existing size and sample. (1) 01 in no. Pipe size 450 NBx10 mm THK, Material:- ST-42, L=960mm. (2) 01 in no. Elbow size 450NBx13mmTHK, Mat:- ST-42 90 degree, R1000 (3) 01 in nos Jet nozzles as below dimensions (a) Flange:- OD 615xID490x28mm THK, Mat. ST-42 (b) Nozzle:- Dia 485/278x20 mmTHK Mat. ST-42 (c) Pipe:-Dia 273x20mm THK, Mat:-ST-42 (d) Eye Plate:- 200x95x10mm THK, Mat:- IS2062 Gr.B (e) Bracket:- 75x65x8mm THK, Mat:- IS 2062 Gr.B as per drawing.				
19.01	Labour and consumable charges	1	No	50000.00	50000.00
19.02	Cost of spare/material actual + 10% basis				
20.00	Discharge end movable pipe jammed/crack and same to be repaired and made operational as per drawing.				
20.01	Labour and consumable charges	1	No	40000.00	40000.00
20.02	Cost of spare/material actual + 10% basis				
21.00	02 nos. Air Bottles, Capacity:250 ltrs/0.25 cum/hrs @ 30 bar and 01 no. Air Bottles, Capacity: 300ltrs/0.25 cum/hrs @ 30 bar to be clean & pressure tested OEM/drawing. All air bottles to be pressure tested upto 45 Bar.				
21.01	Labour and consumable charges	2	No	12500.00	25000.00
21.02	Cost of spare/material actual + 10% basis				
22.00	F.O tanks vent pipe and engine room blowers intake wire mesh /net to be repaired & all vent flap are jammed same to be made operational as per drawing.				
22.01	Labour and consumable charges	1	No.	10000.00	10000.00
22.02	Cost of spare/material actual + 10% basis				
23.00	Emergency pump (Make: HONDA, Model: WP30DX, Capacity/TYPE: 1000ltrs/min, Speed: 3000rpm) is required to be servicing				
23.01	Labour and consumable charges	1	No.	15000.00	15000.00
23.02	Cost of spare/material actual + 10% basis				
24.00	Portable Fire pump & motor (Capacity/TYPE: 1.5BHP, Speed: 3000rpm) is to be serviced.				
24.01	Labour and consumable charges	1	No.	5000.00	5000.00
24.02	Cost of spare/material actual + 10% basis				
25.00	Bilge pump & motor, Make: Johnson pumps, Type: 15 cum/hrs is to be repaired and if required then replaced.				
25.01	Labour and consumable charges	1	No.	10000.00	10000.00
25.02	Cost of spare/material actual + 10% basis				

	Item Description	Quantity	Units	Rate	Amount
26.00	Sewage pump,MAKE: Allweir AG, Type : 7 cum/hr @ 3 bar is not working and same to be serviced including motor pump as per drawing.				
26.01	Labour and consumable charges	1	No.	12000.00	12000.00
26.02	Cost of spare/material actual + 10% basis				
27.00	Fire Extinguisher is to be serviced, tested, and refilled, testing report to be submitted.				
27.01	Water type(9ltr)	1	No.	5000.00	5000.00
27.02	Mech. Foam (9 ltr)	6	No.	5000.00	30000.00
27.03	DCP type (5kg)	2	No.	4000.00	8000.00
27.04	DCP type (9kg)	2	No.	10000.00	20000.00
28.00	03 nos. Emergency bell is to be repaired and rectified the defects.				
28.01	Labour and consumable charges	1	No	5000.00	5000.00
28.02	Cost of spare/material actual + 10% basis				
29.00	Overhauling of Exhaust fan is to be done. If not repairable then replaced as per sample.	2	No	7500.00	15000.00
30.00	01 no.Control room VHF is not working and same to be repaired as per OEM. If same is required then replaced.				
30.01	Labour and consumable charges	1	No.	10000.00	10000.00
30.02	Cost of spare/material actual + 10% basis				
31.00	Control room talk back system, Model: CINTER 505,Make: SCM to be repaired. If not repairable then replaced as per OEM.				
31.01	Labour and consumable charges	1	No.	5000.00	5000.00
31.02	Cost of spare/material actual + 10% basis				
32.00	Dredger control room 01 No AC (1.5Ton,Make: VOLTAS to be repaired as per OEM. If not repairable then replaced as per OEM.				
32.01	Labour and consumable charges	1	No.	7500.00	7500.00
32.02	Cost of spare/material actual + 10% basis				
33.00	Repair and Servicing of Entire hydraulic line including both spud hydraulic brake & spud carriage wheels to be checked as per drawing and same to be repaired as per sample/drawing. If not repairable /servicable then replaced(Generally Hydraulic pipeline)				
33.01	Labour and consumable charges	1	No.	45000.00	45000.00
33.02	Cost of spare/material actual + 10% basis				
34.00	01 nos Blige Oily seprater, Make: RWO, Model:SKIT DEB-0.5, Capacity :0.5 cum/hr is to be repaired as per drawing.				
34.01	Labour and consumable charges	1	No.	15000.00	15000.00
34.02	Cost of spare/material actual + 10% basis				
35.00	Provision for Supply of 05 Nos, 12 VOLT, 1800 MHD Lead acid batteries, Make: Exide and 01 No, 24 VOLT, 1800 MHD Lead acid batteries, Make: Exide for engine and DC control system as per drawing. (Less old battery price)	6	No	17000.00	102000.00
36.00	Provision for Supply of Anchor floating buoy .	4	No	10000.00	40000.00
37.00	Provision for Supply of fire hydrant nozzle	2	No	22500.00	45000.00
38.00	Provision for Supply of fire hose (2'5"& 100 mtrs) with 05 nos male and 05 nos female.	75	mtr	1334.00	100050.00

#	Item Description	Quantity	Units	Rate	Amount
39.00	Navigational light including search light(250w & 24 volt), 06 nos. flood light (500w & 230volt) to be repaired as per drawing/sample. If not repairable then replaced as per OEM/drawing.				
39.01	Labour and consumable charges	1	No	6000	6000.00
39.02	Cost of spare/material actual + 10% basis				
40.00	Gyro/compass is not functional and same to be repaired/serviced as per maintenance manual				
40.01	Labour and consumable charges	1	No	10000	10000.00
40.02	Cost of spare/material actual + 10% basis				
41.00	Aft side awning is damaged, same is to be replaced as per OEM/drawing	1	No	100000	100000.00
42.00	Total cost of Spares for all items above. (in Rs.)	1	Comp Spares	1393000	1393000.00
Total Estimated Rs.					2816550.00
Less (-)				14.00%	394317.00
Work order amount (Rs.)					2422233.00

GST 5% extra as applicable