

-: SCHEDULE - B :-

Name of Work :- FABRICATION, INSTALLATION OF NEW PONTOON AND REPAIR AND MAINTENANCE OF EXISTING PONTOON FOR RORO/ROPAX FACILITY AT

T.I. No.	Description of Item	Quantity	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
Part - A :- NEW PONTOON							
A1	Supply, fabricate, and handle Structural steel shapes, plates, special plates and built-up sections in pontoon conforming to steel grades specified in construction drawings and specifications including profile cutting, assembling, hoisting, fixing in position, welding, inspection as per drawings and specification including cost of all materials, fitting charges, all labour charges, and minor tools etc. complete. The cost shall include all fabrication, minor equipment, and all labour charges etc. complete. Following clauses apply to the floating pontoon fabrication and installation. i. Structural steel shall comply with Project Specifications Vol-III – Clause 1.5 and the coating system shall comply with the Project Specifications Vol-III Clause 1.9. ii. Plan approval from classification society has been obtained by Employer including payment to Classification society for plan approval. iii. Contractor shall obtain classification society approval for its material, fabrication including payment to certification agency for inspection and survey, surveyors to visit, inspect and approve the materials, and fabrication. iv. Contractor shall arrange for the transportation of surveyors and pay for the day charges as per the number of visits required during materila inspection and fabrication. v. All fabrication, welding, cutting, bending of plates on site to be as per BS 5400 Part 6 / AWS D1.1 and relevant classification society (IRS/ABS/BV etc.) rules etc. including surveying/ supervision of fabrication and obtaining certification approval from classification society (IRS/ABS/BV etc.). vi. All tests on materials + Welds (Ultrasonic, dye penetration for welds + Water tightness test).	1288.60	180098.00	Rupees One Lakhs Eighty Thousand Ninty Eight only	M.T.	One Metric ton	23,20,74,970.94
A2	Loadout/launch, tow/transportion of the fabricated pontoon as per the approved scheme by Engineer and installation/commissioning at site including ballasting to final draft and setting down linspan etc., The cost shall include all machinery and manpower for transportation of the pontoon assembly, minor equipment, installation of pontoon and all labour charges etc. complete. Following clauses apply to the floating pontoon transportation and installation. i. Contractor shall obtain classification society approval for its trasportation and installation including payment to certification agency for inspection and survey, surveyors to visit, inspect and approve transportation and installation. ii. Contractor shall arrange for the transportation of surveyors and pay for the day charges as per the number of visits required during transportation and installation.	1.00	19759246	Rupees One Crore Ninty Seven Lakhs Fifty Nine Thousand Two Hundred Forty Six only	No.	One Number	1,97,59,246.00
A3	Supply, fabricate and install Aluminum anodes of 95 kg net weight (GALVALUM III) as per specifications and drawings to the pontoon bottom surface and inside the compartments as per the locations indicated in the drawings using welded connections to protect the surface against corrosion. The anode characteristics, design and material composition shall be all as per specifications.	42.00	70645	Rupees Seventy Thousand Six Hundred Forty Five Only	No.	One Number	29,67,090.00
A4	Supply and provide manpower for surface preparation to SA 2.5 and Painting internal and external surfaces of pontoon with 4 coats of anti-corrosive epoxy painting system with minimum 750 DFT including tools, equipment, manpower, material etc. all inclusive as per specifications.	25177.71	2500	Rupees Two Thousand Five Hundred Only	Sq. Mt.	One Square Meter	6,29,44,277.78
A5	Supply, and provide manpower for Non-skid Painting on the deck surfaces of pontoon of suitable specification including tools, equipment, manpower, material etc. complete. Antiskid finish shall be minimum 5.5mm Nominal Thickness using Cicol NT Slurry by ROCOL UK (or equivalent approved make) + 5.0mm compatible aggregate on top surface of the pontoon.	1500.00	6600	Rupees Six Thousand Six Hundred only	Sq. Mt.	One Square Meter	99,00,000.00
A6	Supplying, testing, fixing and installation of Dipti Arch fender -DAV 1000H or equivalent system including cost of fender with all its accessories, steel fender frame, PTFE facial pads (low friction), chains, anchors including all labour charges, transportation charges up to site, installation and fixing of fenders on to the face of the pontoon and minor tools etc., complete.	30.00	289000	Rupees Two Lakhs Eighty Nine Thousand Only	R. Mt.	One Running Meter	86,70,000.00
A7	Supplying, transporting, fixing and installation of watertight steel manhole covers provided on the deck surfaces of pontoon as shown in drawings including the cost of manhole cover with all its accessories,cover plates,handles,bolts, all labour charges, transportation charges up to site and minor tools etc., complete.	32.00	60000	Rupees Sixty Thousand Only	No.	One Number	19,20,000.00
A8	Supplying, transporting, fixing and installation of UHMW - PE Rubber Pad as shown in drawings including the cost of Rubber Pad and all other fittings,labour charges, transportation charges up to site and minor tools etc., complete.	4.00	34484	Rupees Thirty Four Thousand Four Hundred Eighty Four Only	No.	One Number	1,37,936.00
A9	Supplying, transporting, storing, fabricating & erecting in position and testing/examining welded and hot dipped galvanised (120 microns) iron works made of pipes, plates, shapes, bars, strips, and rods for base plates, crash barrier, edge protection and miscellaneous works including labour charges, tools, tackle and installation etc. complete. The cost shall include, base plate grouting, anchor bolts, etc. No separate payment will be made for these items.	112.00	6786	Rupees Six Thousand Seven Hundred Eighty Six Only	R. Mt.	One Running Meter	7,60,032.00
A10	Providing, installing and commissioning of Centrifugal Pumps set with accessories for ballasting and de-ballasting having flow rate of 510 Cu/hr, pump head of 6 Mtr. Pump power input at duty point of 10.55 KW, Driver motor of 15 KW and rated speed of 1450 RMP. Note: a) Pump should be Kirloskar or equivalent make b) Cost include all pipeline and commissioning of pump for ballasting and deballasting of water in to the pontoon compartments. c) Any residual engineering required to coordinate with the pump vendors, electrical connection and piping within the pontoon shall be carried out by the contractor.	2.00	222600	Rupees Two Lakhs Twenty Two Thousand Six Hundred Only	No.	One Number	4,45,200.00
TOTAL Of Part - A = Rs.							33,95,78,752.72
Part - B :- MODIFICATION OF EXISTING PONTOON							
B1	The scope includes disconnection of existing pontoon of weight 1350 MT from the guide pin piles (after securing the linksan structure with new guide pile support), inspection, obtaining permission/approval from IRS, DNV, and/or BV. for towing to the pontoon from Ghogha to the proposed dry-docking location by the contractor including any dry transport by barge and safely storing in dry dock / repair yard suitable for the pontoon size and weight. The cost should include all manpower, equipment hire / rental or own such as crane, floating vessels or floating crane, barge, tugboats, trailers, hydraulic jacks etc. and all other accessories for the relocation and temporary supports beneath the pontoon etc. The bidder shall propose in the bid the details about the proposed yard or dry dock and transportation methodology as approved by the approving agency such as IRS, DNV, and/or BV. Note: No additional payment for storage period during facbrication will be allowed. In case of storage beyond contractual period, the same may be treated seperately.	1.00	4498277	Rupees Forty Four Lakhs Ninty Eight Thousand Two Hundred Seventy Seven Only	No.	One Number	44,98,277.00

T.I. No.	Description of Item	Quantity	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
C1	Supply and fabricate structural steel pipe piles of 1200mm diameter with thickness and material as specified in construction drawings and specifications or its equivalent including profile cutting, assembling, welding, inspection including cost of all materials, fitting charges, all labour charges and minor tools etc. complete. The cost shall include all transportation, handling, loading, unloading, lifting etc., for the fabricated piles at site till final position. Note: The concrete and the reinforcement for the piles are paid separately	170.97	1,66,815.00	Rupees One Lakhs Sixty Six Thousand Eight Hundred Fifteen Only	M.T.	One Metric ton	2,85,19,670.75
C2	Driving of steel pile to the specified termination level and drilling and removal of soil plug inside the pile as per the construction drawing. The cost shall also include positioning the pile at the location as per construction drawings and driving below existing sea bed level to the required depth (the depth shall be as specified in the construction drawings, specifications and as directed by the Engineer in-charge or Authority Engineer) for linkspan support structure including all equipment such as jack up barge, pile driving hammer, drilling equipment for removal of soil plug etc. complete. The cost shall include the required tests to be conducted at site and laboratory as instructed by the engineer-in-charge.	88.00	1,00,109.00	Rupees One Lakhs One Hundred Nine Only	R. Mt.	One Running Meter	88,09,592.00
C3	Providing and laying design mix concrete of RCC M40 grade in accordance with IS 456 (Latest Edition) using coarse aggregate, sand and 53 grade Portland Slag cement conforming to IS 455 for RCC piles by using tremie with hopper arrangements, excluding cost of fabrication, fixing of reinforcement, centering and shuttering, which will be paid separately, but including cost of cement, stone chips, sand, cost of all labour charges, mixing, conveying, placing, consolidation, screening and washing of coarse aggregate and sand, transportation charges of all materials to the Work Site, hire charges and running charges of batching plant, vibrator, consumables and all other equipment, cost of minor tools etc. complete. (The design mix shall be approved by laboratory Approved by NABL, Govt. of India).	158.17	18,576.00	Rupees Eighteen Thousand Five Hundred Seventy Six Only	Cu. Mt.	One Cubic Meter	29,38,075.98
C4	Supply, deliver and transportation of CRS reinforcement steel with a minimum yield strength of 500 N/mm2 and minimum elongation of 16% or equivalent conforming to IS 1786 with corrosion resistant (CR) element for Fabrication and fixing of reinforcement cages as per drawing for cast-in-situ piles, slabs, in link span support structure and pontoon etc including cost of fabrication, fixing dowels, shear ties, cutting, bending, tying, lapping and welding in position wherever necessary with black 18 SWG annealed binding wire, all labour charges, transportation charges of all materials to Work Site, cost of binding wires, all other items including cover blocks required for the work and minor tools etc. complete.	54.73	1,13,357.00	Rupees One Lakhs Thirteen Thousand Three Hundred Fifty Seven Only	M.T.	One Metric ton	62,03,478.24
C5	Supply, fabricate, transport, handle and erect in position of Structural steel shapes, plates, special plates and built-up sections in link span and link span support frame confirming to steel grades specified in construction drawings and specifications including profile cutting, assembling, hoisting, fixing in position, welding, inspection and painting of priming coat and top coat as per drawings and specification including cost of all materials, fitting charges, all labour charges, transportation charges and minor tools etc. complete. The cost shall include all fabrication, transportation of the support frame assembly, minor equipment, installation of frame on to the piles and all labour charges etc. complete.	17.39	1,80,098.00	Rupees One Lakhs Eighty Thousand Ninty Eight Only	M.T.	One Metric ton	31,32,329.10
C6	Supply, fabricate, transport, handle and erect in position of structural steel frame made of structural steel pipes, through thickness steel tubulars, plates, special plates with through thickness quality and built-up sections conforming to steel grades specified in construction drawings and specifications including profile cutting, assembling, hoisting, fixing in position, welding, inspection as per drawings including cost of all materials, fitting charges, all labour charges, transportation charges and minor tools etc. complete. The cost shall include all fabrication, transportation of the frame assembly, minor equipment, installation of frame by lifting and placing and welding with through thickness weld and all labour charges etc. complete.	55.77	2,17,396.00	Rupees Two Lakhs Seventeen Thousand Three Hundred Ninty Six Only	M.T.	One Metric ton	1,21,24,553.92
C7	Supply, fabricate, install Aluminium anodes of 95 kg net weight (GALVALUM III) as per specifications and drawings to the guide pin piles as per the locations indicated in the drawings using welded connections to protect the surface against corrosion. The anode characteristics, design and material composition shall be all as per specifications.	16.00	70,645.00	Rupees Seventy Thousand Six Hundred Forty Five Only	No.	One Number	11,30,320.00
C8	Conducting geotechnical investigation of soil at the proposed locations as per the drawings including the cost of boring through soils of various strengths and drilling through all kinds of weathered and hard rocks, collection of 90/100mm diameter and 450mm long undisturbed samples from bore holes, conducting SPT in in-situ condition and conducting laboratory experiments on the samples. The cost shall also include preparation and submission of draft report for comments and geotechnical investigation report including detailed results of laboratory studies, recommendation for foundation design etc. including the cost of jack-up barge, drilling rig, other drilling tools and accessories and personnel, minor tools etc. The cost may also include the cost of mobilisation and demobilisation of the equipments and personnel.	2.00	65,000.00	Rupees Sixty Five Thousand Only	No.	One Number	1,30,000.00
TOTAL Of Part - C = Rs.							6,29,88,019.99
Part - D :- MODIFICATION OF LINKSPAN							
D1	Supply, fabricate, transport, handle and erect in position of Structural steel shapes, plates, special plates and built-up sections in linkspan modification confirming to steel grades specified in construction drawings and specifications including profile cutting, assembling, hoisting, fixing in position, welding, inspection and painting of priming coat and top coat as per drawings and specification including cost of all materials, fitting charges, all labour charges, transportation charges and minor tools etc. complete. The cost shall include all fabrication, transportation of the linkspan assembly, minor equipment, installation of members of linkspan and all labour charges etc. complete. complete. Following clauses apply to the linkspan modification and installation. i. Structural steel shall comply with Project Specifications Vol-III – Clause 1.5 and the coating system shall comply with the Project Specifications Vol-III Clause 1.9. ii. Plan approval from classification society has been obtained by Employer including payment to Classification society for plan approval . iii. Contractor shall obtain classification society approval for its material, fabrication and installation including payment to certification agency for inspection and survey, surveyors to visit, inspect and approve the material and modification. iv. Contractor shall arrange for the transportation of surveyors and pay for the day charges as per the number of visits required during fabrication and installation. v. All modification, welding, cutting, bending of plates on site to be as per BS 5400 Part 6 / AWS D1.1 and relevant classification society (IRS/ABS/BV etc.) rules etc. including surveying/ supervision of fabrication and obtaining certification approval from classification society (IRS/ABS/BV etc.). vi. All tests on materials + Welds (Ultrasonic, dye penetration for welds + Water tightness test).	30.45	1,80,098.00	Rupees One Lakhs Eighty Thousand Ninty Eight Only	M.T.	One Metric ton	54,84,290.76

T.I. No.	Description of Item	Quantity	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
D2	Dismantling of structural steel members, plates, shapes and tubular members on the existing linkspan bridge as per the drawings including the cost of cutting, removing, transportation and safe storage of the removed materials. The cost of dismantling includes tools, equipment, manpower, material etc. all inclusive as per specification. The cost also includes site visit, inspection and approval from the classification society.	215.38	4,985.00	Rupees Four Thousand Nine Hundred Eighty Five Only	M. T.	One Metric ton	10,73,670.10
D3	Supplying, transporting, fixing and installation of Ramp protector as shown in drawings including the cost of Ramp Protector and all other fittings,labour charges, transportation charges up to site and minor tools etc., complete.	21.00	1,30,339.00	Rupees One Lakhs Thirty Thousand Three Hundred Thirty Nine Only	Sq. Mt.	One Square Meter	27,37,119.00
D4	Supply, fabricate, transport, handle and erect in position proposed trolley structure made of Structural steel shapes, plates, anchor bolts and built up sections conforming to IS 2062 Grade BR-E250 including profile cutting, assembling, hoisting, fixing in position, welding, inspection and applying a priming coat of approved steel primer and top coat of minimum thickness as specified in the specifications made of approved paint all as per specifications and drawings including cost of all materials, fitting charges, all labour charges, transportation charges and minor tools etc. complete. The cost shall include all fabrication, transportation of the steel structure assembly in part or as a whole, lifting using floating crafts and cranes, erection and fixing on the linkspan with appropriate supporting arrangement, roller plates etc complete.	5.55	1,40,540.00	Rupees One Lakhs Forty Thousand Five Hundred Forty Only	M. T.	One Metric ton	7,80,025.78
D5	Supply, fabricate, transport, handle and erect in position Hot dipped Galvanised Electro forged Grating purchased from approved manufacturer and thickness as shown in construction drawings and all as per specifications including clips, supports using steel conforming to IS 2062 Grade E250 A/B including cutting, hoisting, fixing in position and including cost of all materials, fitting charges, all labour charges, transportation charges and minor tools etc. complete.	9.78	3,319.00	Rupees Three Thousand Three Hundred Nineteen Only	Sq. Mt.	One Square Meter	32,443.23
TOTAL Of Part - D = Rs.							1,01,07,548.87
TOTAL Of Part - A = Rs.							33,95,78,752.72
TOTAL Of Part - B = Rs.							6,06,44,756.42
TOTAL Of Part - C = Rs.							6,29,88,019.99
TOTAL Of Part - D = Rs.							1,01,07,548.87
TOTAL AMOUNT = Rs.							47,33,19,078.00

I/ We am/are willing to carry out this work at _____ % above/ below (percentage should be written in figure and words)
The tendered rates mentioned above amount of my/our tender are put as under:-

Estimated amount put to tender Rs. _____
Deduct _____ % below(-) Rs. _____
Net Rs. _____
In words (Rupees _____)

Estimated amount put to tender Rs. _____
Add _____ % above(+) Rs. _____
Total Rs. _____
In words (Rupees _____)

Contractor

DY. CHIEF ENGINEER (RO-RO)
DEENDAYAL PORT AUTHORITY