

COCHIN PORT AUTHORITY							
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Name of Work:Reconstruction of deck slab of Q5 to Q9 Berths and Construction of a Mooring Platform at Ernakulam Wharf							
Tender No : T10/T-2118/2026-C							
PRICE BID-SCHEDULE – “II”- SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT							
Name and address of Tenderer:							
Sl. No.	Sub- heads and items of work	Approximate Quantity	Unit	Departmental Rate (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
A	Part:A - Dismantling						
1	Demolishing R.C.C. works consisting of beams, slab, portion of ,monolith etc. of Wharf structure manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	9,438.00	m ³	3,953.29	Rupees Three Thousand Nine Hundred Fifty Three and Twenty Nine Paise Only	373,11,151.02	Rupees Three Crore Seventy Three Lakh Eleven Thousand One Hundred Fifty One and Two Paise Only
2	Disposal of dismantled or waste materials by mechanical means, including loading,transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for a distance of upto 6 km	9,438.00	m ³	293.83	Rupees Two Hundred Ninety Three and Eighty Three Paise Only	27,73,167.54	Rupees Twenty Seven Lakh Seventy Three Thousand One Hundred Sixty Seven and Fifty Four Paise Only
3	Removal of existing Cast Iron Bollard fixed in berth, including lifting, loading, transportation and stacking within the designated area of the port premises, localized chipping and cutting of anchor bolts wherever required, using suitable machinery, labour, tools & plant and all incidental charges, complete as per the direction of the Engineer-in-charge.	51.00	Nos.	10,968.00	Rupees Ten Thousand Nine Hundred Sixty Eight Only	5,59,368.00	Rupees Five Lakh Fifty Nine Thousand Three Hundred Sixty Eight Only
4	Removal of existing Fender fixed in berth, including lifting, loading,transportation and stacking within the designated area of the port premises, localized chipping and cutting of anchor bolts wherever required, using suitable machinery, labour, tools & plant and all incidental charges, complete as per the direction of the Engineer - in- charge.	28.00	Nos.	24,991.00	Rupees Twenty Four Thousand Nine Hundred Ninety One Only	6,99,748.00	Rupees Six Lakh Ninety Nine Thousand Seven Hundred Forty Eight Only
5	Dismantling of existing crane rail / railway track including cutting of fish plates, bolts,and rail joints, breaking concrete wherever required, lifting, loading, transportation and stacking within the port premises,complete as per the direction of the Engineer - in- charge.	4,037.84	m	1,335.16	Rupees One Thousand Three Hundred Thirty Five and Sixteen Paise Only	53,91,162.45	Rupees Fifty Three Lakh Ninety One Thousand One Hundred Sixty Two and Forty Five Paise Only

6	Taking away dismantled and damaged/ unservicable scrap materials which includes structural steel members, plates, shapes, based on "AS IT WHERE IT IS BASIS" condition etc. including loading, unloading & transportation etc. complete as per the directions of engineer in charge (Credit item). The bidder shall credit amount to the Employer.	242.27	T	-30400.00	Rupees Thirty Thousand Four Hundred Only	-	73,65,008.00	Rupees Seventy Three Lakh Sixty Five Thousand Eight Only
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7	Felling trees of the girth approx.2.4 m and above (measured at a height of 1 m above ground level), including cutting of trunks and branches, removing the roots and taking away of the all materials of felled tree as per the direction of the Engineer - in- charge.	1.00	Nos.	10,519.92	Rupees Ten Thousand Five Hundred Nineteen and Ninety Two Paise Only	10,519.92	Rupees Ten Thousand Five Hundred Nineteen and Ninety Two Paise Only
	Total for Part: A					393,80,108.93	Rupees Three Crore Ninety Three Lakh Eighty Thousand One Hundred Eight and Ninety Three Paise Only
B	Part - B : Strengthening the existing berth structure & Construction of End Platform						
1	Providing and laying reinforced cement concrete of M40 grade for various precast components such as beams,fender block, pile muff, slabs etc. using graded course & fine aggregates excluding reinforcement work but including cost of materials, labour, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures, shuttering, leveling, compacting, curing, installing all pipe support and mechanical/ electrical fittings, fixtures, steel work with necessary welding to reinforcement, anchoring into concrete, sleeves for fenders, pipes for electrical cables etc. complete and transporting the beams from casing yard to the berth and placing in position to lines and levels including necessary bedding in cement mortar 1:2 etc.complete, as per drawings, detailed specifications and directions of the Engineer-in-Charge.	2,147.67	m ³	29,153.00	Rupees Twenty Nine Thousand One Hundred Fifty Three Only	626,11,023.51	Rupees Six Crore Twenty Six Lakh Eleven Thousand Twenty Three and Fifty One Paise Only
2	Supplying and laying of 160mm DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part -II complete with fitting and cutting, jointing etc.through slab /beam / berth wall complete as required as per drawings, detailed specifications and directions of the Engineer-in-Charge.	975.00	m	427.18	Rupees Four Hundred Twenty Seven and Eighteen Paise Only	4,16,500.50	Rupees Four Lakh Sixteen Thousand Five Hundred and Fifty Paise Only
3	Providing and laying in-situ Reinforced cement concrete of M40 grade for various components such as junction concrete for Pile Muff and beams & insitu portion of pile muff, beams and Slabs etc. using graded course & fine aggregates excluding reinforcement work but including cost of materials, labour, shuttering, leveling, compacting, curing, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures, providing necessary arrangements on slab and beam for fixing bollards, fenders, brackets, installing all pipe support and mechanical/ electrical fittings, fixtures, steel work with necessary welding to reinforcement, anchoring into concrete, pipes for electrical cables etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge.	5,506.89	m ³	24,955.00	Rupees Twenty Four Thousand Nine Hundred Fifty Five Only	1374,24,439.95	Rupees Thirteen Crore Seventy Four Lakh Twenty Four Thousand Four Hundred Thirty Nine and Ninety Five Paise Only

4	Providing and laying in situ cement concrete of M40 grade using graded coarse & fine aggregates, mixed with secondary reinforcement of "polyester triangular fiber" @ 0.975 kg/m3 for wearing course (screed) of average thickness of 100 mm over deck slab with slope and construction joint with filler as specified in the drawings and finishing the surface with floor hardener of approved quality and monolithically to the base concrete to provide highly abrasion resistant surface, including casting in panels, providing slopes on surfaces as specified, vibrating, tamping, curing etc. complete as per drawings, detailed specifications and directions of the Engineer-in-Charge.	1,070.00	m ³	21,505.00	Rupees Twenty One Thousand Five Hundred Five Only	230,10,350.00	Rupees Two Crore Thirty Lakh Ten Thousand Three Hundred Fifty Only
5	Providing and placing in position reinforcement in RCC works such as beams, slabs, pile caps / pile muffs, columns, etc. above using CRS High strength deformed TMT steel bars of Fe500D / Fe550D grade as per IS 1786 including cost of all materials, labour, transporting to site, cutting, bending, welding, lapping, tying, binding, fabricating, installing in position, providing cover blocks, hire charges of all equipment, machinery etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge. (The reinforcement bars, authorised laps, lifting hooks, development lengths, dowels for superstructure etc. as per approved bar bending schedule, will be measured & paid for).	1,268.00	T	1,20,059.70	Rupees One Lakh Twenty Thousand Fifty Nine and Seventy Paise Only	1522,35,699.60	Rupees Fifteen Crore Twenty Two Lakh Thirty Five Thousand Six Hundred Ninety Nine and Sixty Paise Only

6	Supplying, transporting, storing, fabricating & erecting in position and testing/ examining bolted and/ or welded hot dipped galvanised (120 microns) STEEL WORKS of Grade E250 (confirming to per IS:2062) at all locations and levels, including all builtup sections/ compound sections made out of rolled sections and/ or plates/ bent plates in all types of structural frameworks, guide yoke or any other structural items or accessories to support pontoons or such other structures, etc., cutting to required size, straightening/ bending if required, edge preparation, cleaning, preheating, bolting/ welding of joints, (including sealing the joints of box sections with continuous welding and plugging any open ends & holes of box sections), finishing edges by grinding, fixing in line and level with temporary staging & bracing and removal of the same after erection and submission of detailed fabrication drawings etc. all complete as per drawings, detailed specifications and directions of Engineer-in-charge.	12.80	T	1,72,297.00	Rupees One Lakh Seventy Two Thousand Two Hundred Ninety Seven Only	22,05,401.60	Rupees Twenty Two Lakh Five Thousand Four Hundred One and Sixty Paise Only
7	Positioning, alignment and re-fixing of Cast Iron Bollard upto 100T Capacity , providing labour, machinery, tools and plant for lifting, handling and including drilling of holes in reinforced concrete, cleaning of drilled holes, supply and installation of new hot-dip galvanized holding down anchor bolts complete with nuts and washers, injection of approved chemical anchoring resin, tightening of anchor bolts, checking alignment, testing, painting with two coats of epoxy painting of minimum 175 DFT and commissioning. The item shall include crane hire, lifting tackles, tools and plant, consumables, safety arrangements and all incidental works complete in accordance with the drawings, technical specifications and the directions of the Engineer-in-Charge.	51.00	Nos.	35,300.00	Rupees Thirty Five Thousand Three Hundred Only	18,00,300.00	Rupees Eighteen Lakh Three Hundred Only
8	Re-fixing of existing Fender, including providing labour, mahinery, tools and plants for lifting, handling, alignment and drilling of holes in reinforced concrete, cleaning of drilled holes, supply and installation of new SS 314 grade holding down anchor bolts complete with nuts and washers, injection of approved chemical anchoring resin, tightening of anchor bolts using a calibrated hydraulic torque wrench, testing and commissioning. The item shall include crane hire, temporary working platform, lifting tackles, tools and plant, consumables, safety arrangements and all incidental works, including painting with two coats of epoxy painting of minimum 175 DFT complete in accordance with the drawings, technical specifications and the directions of the Engineer-in-Charge	28.00	Nos.	1,33,100.00	Rupees One Lakh Thirty Three Thousand One Hundred Only	37,26,800.00	Rupees Thirty Seven Lakh Twenty Six Thousand Eight Hundred Only

9	Supply and application of Rearm Crete FC putty Build, first coat Epilux 9 IPN coating grey (airless spray / brush)- 50 microns DFT, second coat Epilux 9 HB phenolic IPN coating light grey (airless spray/ brush)- 100 microns DFT, finishing coat Berger thane IPN coating dark grey (airless spray/ brush)-50 microns DFT as per drawing and specifications including manpower, paint, consumables, scaffolding fixing and removing, cleaning and preparing surfaces with sand paper if necessary or by any other approved means etc., tools & tackles, power tooling (grinding), pontoon, electricity, steel rod cutting, safety PPE's, overheads, etc. complete as per the directions of the Engineer-in-Charge .	2,523.64	m ²	1,485.00	Rupees One Thousand Four Hundred Eighty Five Only	37,47,605.40	Rupees Thirty Seven Lakh Forty Seven Thousand Six Hundred Five and Forty Paise Only
10	Providing, mixing and appying bonding coat of approved adhesives on top of precast concrete surfaces / existing concrete surfaces before in-situ concrete works as per specification and directions of Engineer-in-charge Complete in all respect. Epoxy bonding adhesive having coverage 2.2 kg per sq. m of approved make.	9,500.06	m ²	317.49	Rupees Three Hundred Seventeen and Forty Nine Paise Only	30,16,174.05	Rupees Thirty Lakh Sixteen Thousand One Hundred Seventy Four and Four Paise Only
11	Providing and fixing shear keys to a depth of 100mm to 150mm in existing concrete by drilling holes of required diameter and depth, cleaning, inserting shear key reinforcement bars, and grouting with suitable non-shrink / approved grout to achieve full bond strength, including cost of all materials (excluding reinforcement), equipment, tools, tackles, consumables, and manpower required to complete the work in all respects as per specifications and directions of the Engineer-in-Charge. The cost of reinforcement used for shear keys shall be measured and paid separately under the item of reinforcement.	#####	No.	1,055.94	Rupees One Thousand Fifty Five and Ninety Four Paise Only	123,44,994.54	Rupees One Crore Twenty Three Lakh Forty Four Thousand Nine Hundred Ninety Four and Fifty Four Paise Only
12	Conducting routine dynamic high strain testing using pile Driving analyser as per ASTM D 4945 on 1000 mm dia. bored cast in situ pile by applying impact of 1.5 percent weight of capacity of pile with a fall varying from 1m to 3m including preparing head, providing ply and steelplates, fixing strain gauges etc. with recommendations and submission of report signed by the certified testing professional as per drawings,detailed specifications and directions of Engineer-in- charge.	2.00	Nos.	1,75,548.00	Rupees One Lakh Seventy Five Thousand Five Hundred Forty Eight Only	3,51,096.00	Rupees Three Lakh Fifty One Thousand Ninety Six Only
13	Mobilizing, arranging and carrying out low strain pile integrity test for 1000mm dia. bored cast in situ pile in accordance with ASTM D5882, surface impact method or by suitable method as approved by Engineer-in-charge and providing interpretation report signed by the certified testing professional from cut off level to founding level as per detailed directions of Engineer-in-Charge.	15.00	Nos.	9,200.00	Rupees Nine Thousand Two Hundred Only	1,38,000.00	Rupees One Lakh Thirty Eight Thousand Only

14	Supplying, fabricating, and driving MS liners for piles up to refusal level, including provision of stiffeners, bending, cutting, welding, and installation in position through all types of soil up to the specified level below ground level; providing temporary bracings and supports to maintain alignment and stability until completion of deck works, all complete as per drawings, specifications, and directions of the Engineer-in-charge.	75.00	T	1,51,277.30	Rupees One Lakh Fifty One Thousand Two Hundred Seventy Seven and Thirty Paise Only	113,45,797.50	Rupees One Crore Thirteen Lakh Forty Five Thousand Seven Hundred Ninety Seven and Fifty Paise Only
15	Shifting and setting up of equipment, tripods, winch / Pile driving rig, bailers, chisellers etc (as per the methodology of work) for land piles at each location for Vertical structural steel liner for boring work and for concreting the piles including fabrication and erection of pile driving plant, staging with various steel plates, girders, angles, channels etc., including cost of steel items, welding charges, strutting and fixing in position at each location, cost of mobilization and demobilization of all equipments, transportation charges of all materials to worksite, all labour charges and minor tools etc. complete as per the drawings, detailed specifications, and directions of the Engineer-in-charge.	24.00	Nos.	30,246.00	Rupees Thirty Thousand Two Hundred Forty Six Only	7,25,904.00	Rupees Seven Lakh Twenty Five Thousand Nine Hundred Four Only
16	Boring for 1000 mm dia land pile through all types of soils, viz. gravel, clay, stiff clay, cemented clay, sand, weathered soft rock, lean mix concrete and boulders / rubble layer etc.(except soft and hard rock) for vertical piles for depth shown in the drawing including mobilization / demobilisation of all plants and equipments, retaining of sides with bentonite slurry or polymer solutions and cleaning the bore holes, cost of all materials, labour, plants, equipments etc., including disposing of bored muck at suitable dumping area within a distance of 6 km, taking SPT values at founding level etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge. (only length below existing bed level/ ground level will be measured and paid).	999.00	m	23,230.00	Rupees Twenty Three Thousand Two Hundred Thirty Only	232,06,770.00	Rupees Two Crore Thirty Two Lakh Six Thousand Seven Hundred Seventy Only
17	Providing and placing in position reinforcement in cages inside the marine pile bore using CRS High strength deformed TMT steel bars bars of Fe500D / Fe550D grade as per IS 1786 including cost of all materials, labour, transporting to site, cutting, bending, welding, lapping, tying, binding, fabricating into cages, installing in position, providing cover blocks, hire charges of all equipment, machinery etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge.(The reinforcement bars, authorised laps, lifting hooks, development lengths, stiffening rings / bars etc. as per approved bar bending schedule, will be measured & paid for).	119.50	T	1,20,059.70	Rupees One Lakh Twenty Thousand Fifty Nine and Seventy Paise Only	143,47,134.15	Rupees One Crore Forty Three Lakh Forty Seven Thousand One Hundred Thirty Four and Fifteen Paise Only

18	Providing and laying Reinforced cement concrete of M40 grade in-situ by standard method of placing by tremie pipe inside the Pile bore including cost of all materials, labour, all sampling and testing / recording, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures, if required etc. complete but excluding reinforcement work as per drawings, detailed specifications and directions of the Engineer-in-charge. [Only concrete quantity between founding level and 60 cm above specified Pile cut off level will be measured & paid for].	787.00	m ³	17,250.00	Rupees Seventeen Thousand Two Hundred Fifty Only	135,75,750.00	Rupees One Crore Thirty Five Lakh Seventy Five Thousand Seven Hundred Fifty Only
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19	Chipping the concrete from the top of piles of 1000mm dia. up to cutoff level, exposing the reinforcement, dressing pile head and disposing off the dismantled materials at suitable locations within a distance of 6 km as per the directions of the Engineer-in- charge and leveling pile head including hire charges of all equipment, labour etc. complete as per the drawings, detailed specifications and directions of the Engineer-in-charge.	12.00	m ³	11,213.00	Rupees Eleven Thousand Two Hundred Thirteen Only	1,34,556.00	Rupees One Lakh Thirty Four Thousand Five Hundred Fifty Six Only
20	Providing and fixing in position to lines and levels 100 T capacity double horn cast iron bollard as shown in the drawing including supplying and fixing in position anchor bolts, nuts, grouting inside with cement concrete of M40 grade excluding reinforcement and also including painting the bollard, the exposed surface shall be shot blasted and coated with zinc rich primer of 50 microns and two coats of high build epoxy solid paint (150 microns each) etc. complete as per drawing, detailed specifications and directions of the Engineer in-charge.	1.00	Nos.	1,81,450.00	Rupees One Lakh Eighty One Thousand Four Hundred Fifty Only	1,81,450.00	Rupees One Lakh Eighty One Thousand Four Hundred Fifty Only
21	Earth work in excavation in all kinds of soil by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and for all lift, as per drawings, detailed specifications and directions of Engineer-in-charge.	1,080.00	m ³	169.44	Rupees One Hundred Sixty Nine and Forty Four Paise Only	1,82,995.20	Rupees One Lakh Eighty Two Thousand Nine Hundred Ninety Five and Twenty Paise Only
22	Providing and fixing Stainless steel (SS 316 grade) ladder with stainless steel sections including anchor bolts, of width 0.45 m and 3.0 m long using rods, S S flats and handrails using 20mm dia. Stainless steel round bars etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge.	11.00	Nos.	1,06,375.00	Rupees One Lakh Six Thousand Three Hundred Seventy Five Only	11,70,125.00	Rupees Eleven Lakh Seventy Thousand One Hundred Twenty Five Only
23	Providing and fixing stainless steel (SS-316) mooring ring of outer dia. 200mm, using 25mm dia. rod including welding with suitable electrodes, fixing the same to the stainless steel 400mm long eye hook cut out off 32mm dia. bar fixed at the face of the jetty etc. complete as per drawings, detailed specifications and directions of Engineer-in-charge.	22.00	Nos.	17,250.00	Rupees Seventeen Thousand Two Hundred Fifty Only	3,79,500.00	Rupees Three Lakh Seventy Nine Thousand Five Hundred Only
	Total for Part - B					4682,78,367.00	Rupees Forty Six Crore Eighty Two Lakh Seventy Eight Thousand Three Hundred Sixty Six and Ninety Nine Paise Only
	TOTAL FOR PART : A + B					5076,58,475.93	Rupees Fifty Crore Seventy Six Lakh Fifty Eight Thousand Four Hundred Seventy Five and Ninety Three Paise Only

BIDDER'S QUOTING AREA						
Sl. No.	Description of Work	Departmental Estimated Cost (Rs)	Percentage Quoted above/ below the Departmental Amount by the Bidder		Above/Below	
			* In Figures	*In Words		
	Percenatge Quoted above / below the Departmental Amount shown in the above Schedule	5076,58,475.93				

* Note

- 1 Only three cells highlighted are only editable
- 2 The Bidder shall quote both in figures and words
- 3 The Bidders shall also quote Above / Below in words themselves under column (5)
- 4 Only two decimal digits will be accepted under "In Figures"
- 5 The rate filled at other places of the document are not acceptable
- 6 No condition shall be accepted

