COCHIN PORT AUTHORITY

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Name of Wok : RECONSTRUCTION OF Q3/Q2 BERTHS AT COCHIN PORT

Tender No : T10/T-2062/2025-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 of Existing Q2 Berth**						
1	Demolishing R.C.C. work 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.	63.00	m3	3444.76	*Rupees Three Thousand Four Hundred Forty Four and Seventy Six Paise Only*	2,17,019.88	Rupees Two Lakh Seventeen Thousand Nineteen and Eighty Eight Paise Only
2	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer-in-charge.	10.50	m2	1173.33	Rupees One Thousand One Hundred Seventy Three and Thirty Three Paise Only	12,319.97	Rupees Twelve Thousand Three Hundred Nineteen and Ninety Six Paise Only
3	Disposal of building rubbish / malba / similar unserviceable, 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 all leads including all lifts involved.	72.00	m3	188.70	Rupees One Hundred Eighty Eight and Seventy Paise Only	13,586.40	Rupees Thirteen Thousand Five Hundred Eighty Six and Forty Paise Only
	Total for Part: A					**2,42,926.25**	**Rupees Two Lakh Forty Two Thousand Nine Hundred Twenty Six and Twenty Four Paise Only**
B	**Part:B - Construction of Berth**						
1	Fabricating and supplying Mild Steel (MS) Liners at a suitable fabrication yard for bored cast-in-situ piles of 1,200mm dia. piles in backwater to the required length, using 6mm thick plate, including cost of all materials, labour, cutting, rolling, welding etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	155.00	T	1,42,025.00	Rupees One Lakh Forty Two Thousand Twenty Five Only	2,20,13,875.00	Rupees Two Crore Twenty Lakh Thirteen Thousand Eight Hundred Seventy Five Only
2	Transporting the fabricated MS liners fabricated as per item No. 1 above from the fabrication yard to pile location, handling, pitching and driving the MS liners to required level and verticality including setting piling rigs/ gantry in position, temporary works for driving piles etc. complete all as per detailed specifications and directions of Engineer-in-charge.	56.00	Nos.	36,501.00	Rupees Thirty Six Thousand Five Hundred One Only	20,44,056.00	Rupees Twenty Lakh Forty Four Thousand Fifty Six Only
3	Marine boring 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 1,200mm dia. vertical piles at about (-)55m depth 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, 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 will be measured and paid for.)	2,570.00	m	23,230.00	Rupees Twenty Three Thousand Two Hundred Thirty Only	5,97,01,100.00	Rupees Five Crore Ninety Seven Lakh One Thousand One Hundred Only
4	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 Engineer-in-charge. [Only concrete quantity between founding level and 100cm above specified Pile cut off level will be measured & paid for].	3,685.00	m3	17,250.00	Rupees Seventeen Thousand Two Hundred Fifty Only	6,35,66,250.00	Rupees Six Crore Thirty Five Lakh Sixty Six Thousand Two Hundred Fifty Only
5	Providing and placing in position reinforcement in cages inside the marine pile bore using CRS High strength deformed TMT steel bars bars of Fe550D / Fe415D grade 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, dowels for superstructure etc. as per approved bar bending schedule, will be measured & paid for)	610.00	T	1,13,479.84	Rupees One Lakh Thirteen Thousand Four Hundred Seventy Nine and Eighty Four Paise Only	6,92,22,702.40	Rupees Six Crore Ninety Two Lakh Twenty Two Thousand Seven Hundred Two and Forty Paise Only

Name and address of Tenderer:							
6	Chipping the concrete from the top of marine piles of 1,200mm dia. up to cutoff level, exposing the reinforcement, dressing pile head and disposing off the dismantled materials at suitable locations as per the directions of the Engineer-in-charge and leveling including hire charges of all equipment, labour, consumables etc. complete.	65.00	m3	11,212.50	Rupees Eleven Thousand Two Hundred Twelve and Fifty Paise Only	7,28,812.50	Rupees Seven Lakh Twenty Eight Thousand Eight Hundred Twelve and Fifty Paise Only
7	Conducting initial vertical load test (by direct loading method) on 1,200mm dia. pile, with a safe load of 325 tonnes, as per IS 2911 (Part 4) : 2013, clause 8.4, including cost for finishing pile head, supply and erection of kentledge (or reaction loading) of suitable magnitude as specified, labour, excavation, back filling, compaction etc. complete all as per detailed specifications and directions of Engineer-in-charge. Test shall be done in the backup area on land using annular pile and soil upto -12.5m CD shall be removed in the annular pile. The rate is inclusive of casting of 1,200mm dia. Bored cast-in-situ concrete pile with liners, reinforcement, M40 concrete etc., up to founding level as indicated in drawings (with annular casing) as per detailed specifications, other relevant drawing and as per the directions of Engineer-in-charge including all labour material, tools, equipments, fuels, etc. complete.	1.00	Nos.	23,21,562.50	Rupees Twenty Three Lakh Twenty One Thousand Five Hundred Sixty Two and Fifty Paise Only	23,21,562.50	Rupees Twenty Three Lakh Twenty One Thousand Five Hundred Sixty Two and Fifty Paise Only
8	Conducting routine vertical load test (by direct loading method) on 1,200mm dia. pile, for a safe load of 325 tonnes including cost for finishing pile head, supply and erection of kentledge (or reaction loading) of suitable magnitude as specified, labour, excavation, back filling, compaction etc. complete all as per detailed specifications and directions of Engineer-in-charge	1.00	No.	16,67,500.00	Rupees Sixteen Lakh Sixty Seven Thousand Five Hundred Only	16,67,500.00	Rupees Sixteen Lakh Sixty Seven Thousand Five Hundred Only
9	Mobilizing, arranging and carrying out low strain pile integrity test for 1200mm 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 from cut off level to founding level as per detailed directions of Engineer-in-charge.	56.00	Nos.	9,200.00	Rupees Nine Thousand Two Hundred Only	5,15,200.00	Rupees Five Lakh Fifteen Thousand Two Hundred Only
10	Conducting routine dynamic high strain testing using pile Driving analyser as per ASTM D 4945 on 1,200 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 steel plates, fixing strain gauges etc. as per drawings, detailed specifications and directions of Engineer-in-charge.	2.00	Nos.	1,75,547.50	Rupees One Lakh Seventy Five Thousand Five Hundred Forty Seven and Fifty Paise Only	3,51,095.00	Rupees Three Lakh Fifty One Thousand Ninety Five Only
11	Providing and laying in-situ Reinforced cement concrete of M40 grade for various components such as Pile caps, Pile Muff, Beams, facia, 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. (Structural work fittings, fenders, mechanical equipment will be paid under separate items)	870.00	m3	24,955.00	Rupees Twenty Four Thousand Nine Hundred Fifty Five Only	2,17,10,850.00	Rupees Two Crore Seventeen Lakh Ten Thousand Eight Hundred Fifty Only
12	Providing and laying reinforced cement concrete of M40 grade for various precast components such as beams, fender block, 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 jetty 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 Engineer-in-Charge. (Structural work fittings, fenders, mechanical equipment will be paid under separate items)	325.00	m3	29,152.50	Rupees Twenty Nine Thousand One Hundred Fifty Two and Fifty Paise Only	94,74,562.50	Rupees Ninety Four Lakh Seventy Four Thousand Five Hundred Sixty Two and Fifty Paise Only
13	Providing and laying in situ Reinforced cement concrete of M40 grade for kerb by using graded course & fine aggregates, excluding reinforcement work but including shuttering, leveling, compacting, curing, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge.	17.00	m3	25,300.00	Rupees Twenty Five Thousand Three Hundred Only	4,30,100.00	Rupees Four Lakh Thirty Thousand One Hundred Only
14	Providing and laying in situ Reinforced cement concrete of M40 grade for Handrails and Posts using graded course & fine aggregates, excluding reinforcement work but including shuttering, leveling, compacting, curing, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge..	11.00	m3	25,300.00	Rupees Twenty Five Thousand Three Hundred Only	2,78,300.00	Rupees Two Lakh Seventy Eight Thousand Three Hundred Only

	Name and address of Tenderer:						
15	Providing and fixing reinforcement using CRS High strength deformed TMT steel bars of Fe550D / Fe415D grade for the RCC works under items 11 to 14 above, including conveying, straightening, cutting, bending, welding, lapping and tying in position, fabrication and fixing dowels, shear ties and placing with adequate lapping lengths etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	240.00	T	1,13,479.84	Rupees One Lakh Thirteen Thousand Four Hundred Seventy Nine and Eighty Four Paise Only	2,72,35,161.60	Rupees Two Crore Seventy Two Lakh Thirty Five Thousand One Hundred Sixty One and Sixty Paise Only
16	Providing and laying in situ cement concrete of M25 grade using graded coarse & fine aggregates, mixed with secondary reinforcement of "poly propylene fiber" make for wearing course of approximate average thickness of 75 mm over deck slab and finishing the surface with floor hardener of approved quality @ 5kg/m2 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 Engineer-in-Charge.	105.00	m3	21,505.00	Rupees Twenty One Thousand Five Hundred Five Only	22,58,025.00	Rupees Twenty Two Lakh Fifty Eight Thousand Twenty Five Only
17	Providing, cutting to required length and placing in position before concreting, 80mm dia. GI pipe (Medium Class) for drainage of rain water in deck, all as per drawings, detailed specifications and directions of Engineer-in-charge.	61.00	m	2,530.00	Rupees Two Thousand Five Hundred Thirty Only	1,54,330.00	Rupees One Lakh Fifty Four Thousand Three Hundred Thirty Only
18	Providing and fixing in position to lines and levels 100 T capacity double horn cast steel 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 all steel works 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 Engineer in-charge	5.00	Nos.	3,00,000.00	Rupees Three Lakh Only	15,00,000.00	Rupees Fifteen Lakh Only
19	Providing and fixing in position Cell Type rubber fender of size 1150 H with frontal frame of size 1700mm x 3000mm of approved quality with all fixtures and accessories, facia pad, necessary chains, anchor bolts etc. complete all as per detailed specifications and directions of Engineer in Charge	5.00	Nos.	9,90,000.00	Rupees Nine Lakh Ninety Thousand Only	49,50,000.00	Rupees Forty Nine Lakh Fifty Thousand Only
20	Providing and fixing in position D-type rubber fenders 150mm H x 150mm D having energy absorption of 0.25 Ton-m per metre at max 52.5% deflection and max reaction force 9.6T per metre including bolts, nuts and washers of stainless steel SUS 316 grade, all fixtures, rigidly in correct alignment and position all as per drawings, handling, transportation, third party inspection, materials, labour, staging, tools, equipment, plants, machineries etc. complete as per detailed specifications and directions of Engineer-in-charge.	22.00	m	41,400.00	Rupees Forty One Thousand Four Hundred Only	9,10,800.00	Rupees Nine Lakh Ten Thousand Eight Hundred Only
21	Providing and fixing Stainless steel (SS 316 grade) ladder R.C brackets 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.	2.00	Nos.	1,06,375.00	Rupees One Lakh Six Thousand Three Hundred Seventy Five Only	2,12,750.00	Rupees Two Lakh Twelve Thousand Seven Hundred Fifty Only
22	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.	4.00	Nos.	17,250.00	Rupees Seventeen Thousand Two Hundred Fifty Only	69,000.00	Rupees Sixty Nine Thousand Only
23	Providing Interpenetrating Polymer Net work(IPN) anti corrosive polymer system (Cera Cote EP CR PE IP- Net) or its equivalent with two coats of epoxy phenolic ipnet coating of DFT 100 microns over one coat of epoxy phenolic ipnet primer coating of DFT 50 microns to entire external surface of super structure/sub structure of the Approach Trestle except top surface including cleaning the concrete surface with sand blasting or equivalent methods, cost of scaffolding, chipping removing dirt particles etc. complete as per detailed specifications and directions of Engineer-in-charge.	3,800.00	m2	1,978.00	Rupees One Thousand Nine Hundred Seventy Eight Only	75,16,400.00	Rupees Seventy Five Lakh Sixteen Thousand Four Hundred Only
24	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work for handrails and posts	410.00	m2	257.40	Rupees Two Hundred Fifty Seven and Forty Paise Only	1,05,534.00	Rupees One Lakh Five Thousand Five Hundred Thirty Four Only
	Total for Part: B					**29,89,37,966.50**	**Rupees Twenty Nine Crore Eighty Nine Lakh Thirty Seven Thousand Nine Hundred Sixty Six and Fifty Paise Only**
C	**Part:C - Construction of Approach Bridge**						

	Name and address of Tenderer:						
1	Fabricating and supplying Mild Steel (MS) Liners at a suitable fabrication yard for bored cast-in-situ piles of 1,000mm dia. piles in backwater to the required length using 6mm thick plate, including cost of all materials, labour, cutting, rolling, welding etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	15.50	T	1,42,025.00	Rupees One Lakh Forty Two Thousand Twenty Five Only	22,01,387.50	Rupees Twenty Two Lakh One Thousand Three Hundred Eighty Seven and Fifty Paise Only
2	Transporting the fabricated MS liners fabricated as per item No. 1 above from the fabrication yard to pile location, handling, pitching and driving the MS liners to required level and verticality including setting piling rigs/ gantry in position, temporary works for driving piles etc. complete all as per detailed specifications and directions of Engineer-in-charge.	8.00	Nos.	36,501.00	Rupees Thirty Six Thousand Five Hundred One Only	2,92,008.00	Rupees Two Lakh Ninety Two Thousand Eight Only
3	Marine boring 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 1,000mm dia. vertical piles up to (-)55m depth including mobilization / demobilisation of all plants and equipments, retaining of sides with bentonite slurry or polymer solutions and cleaning the holes, cost of all materials, labour, plants, equipments etc., including disposing of bored muck at suitable dumping area, taking SPT values at founding level etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge. (only length below existing bed level will be measured and paid for.)	392.00	m	23,230.00	Rupees Twenty Three Thousand Two Hundred Thirty Only	91,06,160.00	Rupees Ninety One Lakh Six Thousand One Hundred Sixty Only
4	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 Engineer-in-charge. [Only concrete quantity between founding level and 100cm above specified Pile cut off level will be measured & paid for].	364.00	m3	17,250.00	Rupees Seventeen Thousand Two Hundred Fifty Only	62,79,000.00	Rupees Sixty Two Lakh Seventy Nine Thousand Only
5	Providing and placing in position reinforcement in cages inside the marine pile bore using CRS High strength deformed TMT steel bars bars of Fe550D / Fe415D grade 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, dowels for superstructure etc. as per approved bar bending schedule, will be measured & paid for)	55.00	T	1,13,479.84	Rupees One Lakh Thirteen Thousand Four Hundred Seventy Nine and Eighty Four Paise Only	62,41,391.20	Rupees Sixty Two Lakh Forty One Thousand Three Hundred Ninety One and Twenty Paise Only
6	Chipping the concrete from the top of marine piles of 1,000mm dia. up to cutoff level, exposing the reinforcement, dressing pile head and disposing off the dismantled materials at suitable locations as per the directions of the Engineer-in-charge and leveling including hire charges of all equipment, labour, consumables etc. complete.	6.50	m3	11,212.50	Rupees Eleven Thousand Two Hundred Twelve and Fifty Paise Only	72,881.25	Rupees Seventy Two Thousand Eight Hundred Eighty One and Twenty Five Paise Only
7	Conducting routine vertical load test (by direct loading method) on 1,000mm dia. pile, for the safe load including cost for finishing pile head, supply and erection of kentledge (or reaction loading) of suitable magnitude as specified, labour, excavation, back filling, compaction etc. complete all as per detailed specifications and directions of Engineer-in-charge	1.00	Nos	16,67,500.00	Rupees Sixteen Lakh Sixty Seven Thousand Five Hundred Only	16,67,500.00	Rupees Sixteen Lakh Sixty Seven Thousand Five Hundred Only
8	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 from cut off level to founding level as per detailed directions of Engineer-in-charge.	8.00	Nos	9,200.00	Rupees Nine Thousand Two Hundred Only	73,600.00	Rupees Seventy Three Thousand Six Hundred Only
9	Providing and laying reinforced cement concrete of M40 grade for various precast components for beams 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 jetty 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 Engineer-in-Charge. (Structural work fittings, fenders, mechanical equipment will be paid under separate items)	101.00	m3	29,152.50	Rupees Twenty Nine Thousand One Hundred Fifty Two and Fifty Paise Only	**29,44,402.50**	Rupees Twenty Nine Lakh Forty Four Thousand Four Hundred Two and Fifty Paise Only

	Name and address of Tenderer:						
10	Providing and laying in-situ Reinforced cement concrete of M40 grade for Pile caps, Pile Muff, beams and Slabs 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. (Structural work fittings, fenders, mechanical equipment will be paid under separate items)	145.00	m3	24,955.00	Rupees Twenty Four Thousand Nine Hundred Fifty Five Only	36,18,475.00	Rupees Thirty Six Lakh Eighteen Thousand Four Hundred Seventy Five Only
11	Providing and laying in situ Reinforced cement concrete of M40 grade for Kerb by using graded course & fine aggregates, excluding reinforcement work but including shuttering, leveling, compacting, curing, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge.	4.50	m3	25,300.00	Rupees Twenty Five Thousand Three Hundred Only	1,13,850.00	Rupees One Lakh Thirteen Thousand Eight Hundred Fifty Only
12	Providing and laying in situ Reinforced cement concrete of M40 grade for Handrails and Posts using graded course & fine aggregates, excluding reinforcement work but including shuttering, leveling, compacting, curing, mixing with Bipolar concrete penetrating corrosion inhibiting admixtures etc. complete all as per drawings, detailed specifications and directions of Engineer-in-charge.	7.00	m3	25,300.00	Rupees Twenty Five Thousand Three Hundred Only	1,77,100.00	Rupees One Lakh Seventy Seven Thousand One Hundred Only
13	Providing and fixing reinforcement using CRS High strength deformed TMT steel bars of Fe550D / Fe415D grade for the RCC works under items 11 to 14 above, including conveying, straightening, cutting, bending, welding, lapping and tying in position, fabrication and fixing dowels, shear ties and placing with adequate lapping lengths etc. complete as per drawings, detailed specifications and directions of the Engineer-in-charge.	45.50	T	1,13,479.84	Rupees One Lakh Thirteen Thousand Four Hundred Seventy Nine and Eighty Four Paise Only	51,63,332.72	Rupees Fifty One Lakh Sixty Three Thousand Three Hundred Thirty Two and Seventy Two Paise Only
14	Providing and laying in situ cement concrete of M25 grade using graded course & fine aggregates, mixed with secondary reinforcement of "poly propylene fiber" make for wearing course of approximate average thickness of 75 mm over deck slab and finishing the surface with floor hardener of approved quality @ 5kg/m2 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 Engineer-in-Charge.	23.50	m2	21,505.00	Rupees Twenty One Thousand Five Hundred Five Only	5,05,367.50	Rupees Five Lakh Five Thousand Three Hundred Sixty Seven and Fifty Paise Only
15	Providing Interpenetrating Polymer Net work(IPN) anti corrosive polymer system (Cera Cote EP CR PE IP- Net)or its equivalent with two coats of epoxy phenolic ipnet coating of DFT 100 microns over one coat of epoxy phenolic ipnet primer coating of DFT 50 microns to entire external surface of super structure/sub structure of the Approach Trestle except top surface including cleaning the concrete surface with sand blasting or equivalent methods, cost of scaffolding, chipping removing dirt particles etc. complete as per detailed specifications and directions of Engineer-in-charge.	1,080.00	m2	1,978.00	Rupees One Thousand Nine Hundred Seventy Eight Only	21,36,240.00	Rupees Twenty One Lakh Thirty Six Thousand Two Hundred Forty Only
16	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work for handrails and posts	200.00	m2	257.40	Rupees Two Hundred Fifty Seven and Forty Paise Only	51,480.00	Rupees Fifty One Thousand Four Hundred Eighty Only
	Total for Part: C					**4,06,44,175.67**	**Rupees Four Crore Six Lakh Forty Four Thousand One Hundred Seventy Five and Sixty Seven Paise Only**
D	**Part:D - Providing Electrical facilities**						
1	Supply, of 11 Mtr long GI octagonal pole made of MS steel having necessary sections if required as per manufactures design with suitable base plate and necessary single arm each ,min sheet steel thickness 3mm , foundation bolts, suitable for providing 200 W Flame proof light fittings - 2 NOS, Interconnecting UG FR armoured Cu cables for taking supply to poles as required and all related works as directed by the EIC.	5.00	Nos	22,288.14	Rupees Twenty Two Thousand Two Hundred Eighty Eight and Fourteen Paise Only	1,11,440.70	Rupees One Lakh Eleven Thousand Four Hundred Forty and Seventy Paise Only

	Name and address of Tenderer:						
2	Installation, testing and commissioning of 11 Mtr long GI octagonal pole made of MS steel having necessary sections if required as per manufactures design with suitable base plate and necessary single arm each ,min sheet steel thickness 3mm ,suitable for providing 200 W Flame proof light fittings - 2 NOS, and all materials required for installation like interconnecting cable with 1 Runs of 3C x2.5 sq.mm FR PVC insulated stranded copper conductor flexible cable , bolts, nuts, DIN rail, 16A SP MCB-1 Nos., 32A connectors heavy duty 4way, N.L-2Nos, 3mm thick laminated hylem sheet, Pole earthing, glanding including connection complete as required and all related works as directed by the EIC.	5.00	Nos	7,556.00	Rupees Seven Thousand Five Hundred Fifty Six Only	37,780.00	Rupees Thirty Seven Thousand Seven Hundred Eighty Only
3	Building of RCC foundation from the existing berth slab/curb with anchoring stud, foundation Bolts etc. for as per manufacturer recommendation including all materials for foundation as per the manufacturer drawing for 11 metre pole by providing necessary template and all related works as directed by the EIC.	5.00	Nos.	2,093.60	Rupees Two Thousand Ninety Three and Sixty Paise Only	10,468.00	Rupees Ten Thousand Four Hundred Sixty Eight Only
4	Supply , installation , testing and commissioning of 200 W LED Flame proof LED street light with pressure die-cast housing, high performance polycarbonate optics and IP66 ingress protection. 4kV inbuilt surge protecton with Top opening driver cover for easy maintenance, suitable for zone - 1 & zone- 2, gas / vapour Group II A,II B, II C, CIFMR - BIS - PESO CERTIFIED, Efficiency 120 Lm/W for street lights at Q2 & Q3 berths .	24.00	Nos.	13,460.17	Rupees Thirteen Thousand Four Hundred Sixty and Seventeen Paise Only	3,23,044.08	Rupees Three Lakh Twenty Three Thousand Forty Four and Eight Paise Only
5	Supply , installation , testing and commissioning of FLAMEPROOF Junction Boxes 16 A , Size 200mmX 150MM X 120 MM SUITABLE FOR ZONE- 1 & ZONE - 2, GAS/VAPOUR GROUP II A, II B, & II C , CIMFR - BIS - PESO CERTIFIED supply detail: 1. Cable size 4C X 4 sq mm CU, UG Armoured cable. 2. Holes Qty- 4 nos. , preferably side holes. 3. 16 A terminal 4 P.	5.00	Nos.	8,608.47	Rupees Eight Thousand Six Hundred Eight and Forty Seven Paise Only	43,042.35	Rupees Forty Three Thousand Forty Two and Thirty Five Paise Only
6	Supply of 3.5 C x 50 SQ MM Aluminium Power Cables XLPE Insulated, FR, cores laid up, PVC tape/Extruded Inner sheathed for Multi-core Cables , Armour extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7098(Part 1) 1988	325.00	m	239.04	Rupees Two Hundred Thirty Nine and Four Paise Only	77,688.00	Rupees Seventy Seven Thousand Six Hundred Eighty Eight Only
7	Laying and fixing of number 3.5C x 50 sq. mm PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade on wall surface (clamping with SS clamp) as required.	325.00	m	218.92	Rupees Two Hundred Eighteen and Ninety Two Paise Only	71,149.00	Rupees Seventy One Thousand One Hundred Forty Nine Only
8	Supplying and making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE Aluminium conductor cable of 1.1 KV grade as required.						
	Up to 4C x4 sq mm	35.00	Nos.	284.00	Rupees Two Hundred Eighty Four Only	9,940.00	Rupees Nine Thousand Nine Hundred Forty Only
	3½ X 50 sq. mm (35mm)	2.00	Nos.	488.71	Rupees Four Hundred Eighty Eight and Seventy One Paise Only	977.42	Rupees Nine Hundred Seventy Seven and Forty Two Paise Only
9	Supplying and laying of following size 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. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required. 110 mm dia (OD-110 mm)	50.00	m	435.46	Rupees Four Hundred Thirty Five and Forty Six Paise Only	21,773.00	Rupees Twenty One Thousand Seven Hundred Seventy Three Only
10	Providing pipe earthing for poles wth 1 M Cu bonded Rod 100 Micron with 4mm Dia. CU wire and giving connections to poles etc. as required	2.00	Nos.	1,200.00	Rupees One Thousand Two Hundred Only	2,400.00	Rupees Two Thousand Four Hundred Only
11	Providing and fixing 25 mm X 5 mm G.I. strip on ground by excavation for connections etc. as required.	100.00	m	288.71	Rupees Two Hundred Eighty Eight and Seventy One Paise Only	28,871.00	Rupees Twenty Eight Thousand Eight Hundred Seventy One Only
12	SITC of KV Thermoplastic outdoor Circuit Breaker Boxes IP 65 (with metric knockouts for cable entry, 1 row 4 modules, 126 x 228 x 111 mm, with suitable glands (HENSEL) including MCB - 4 NOS.	1.00	Nos.	2,229.50	Rupees Two Thousand Two Hundred Twenty Nine and Fifty Paise Only	2,229.50	Rupees Two Thousand Two Hundred Twenty Nine and Fifty Paise Only
13	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders/angle including G.I. bolts & nuts, etc. as required. (300 mm width X 62.5 mm depth X 2.0 mm thickness)	200.00	m	1,418.88	Rupees One Thousand Four Hundred Eighteen and Eighty Eight Paise Only	2,83,776.00	Rupees Two Lakh Eighty Three Thousand Seven Hundred Seventy Six Only
14	SITC of Polycarbonate Lights control panel with timer , Contactor, Auto /M switch MCB etc as required Incomings 40A FP MCB - 1 No. 32A 4P CONTACTOR - 1 No. 24 Hr DIGITAL TIME SWITCH - 1 No. 2A SP control MCB – 1 No Outgoings- 10A SP MCB – 6 Nos.	1.00	Nos.	45,926.59	Rupees Forty Five Thousand Nine Hundred Twenty Six and Fifty Nine Paise Only	45,926.59	Rupees Forty Five Thousand Nine Hundred Twenty Six and Fifty Nine Paise Only

	Name and address of Tenderer:						
	Total for Part: D					**10,70,505.64**	Rupees Ten Lakh Seventy Thousand Five Hundred Five and Sixty Four Paise Only
	TOTAL FOR PART : A + B + C + D					**34,08,95,574.06**	**Rupees Thirty Four Crore Eight Lakh Ninety Five Thousand Five Hundred Seventy Four and Five Paise Only**
	BIDDER'S QUOTING AREA						
	Percenatge Quoted above / below the Departmental Amount shown in the above Schedule	**Departmental Estimated Cost (Rs)**	**Percentage Quoted above/ below the Departmental Amount by the Bidder**		**Above/Below**		
			In Figures	**In Words**			
	***Note** **1. The Bidder shall quote both in figures and words** **2. The Bidder shall also quote Above/Below in words themselves in the last column** **3.Only two decimal digits will be accepted.**	**34,08,95,574.06**					
	" This is a Electronic Submission No Need of Signature"						

Name and address of Tenderer:	