

COCHIN PORT AUTHORITY

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Tender No: T6/T-2021/2024-C

Name of Work : Resurfacing KPK Menon Road from CHTS Jn. to CFS

SCHEDULE – "I" - SCHEDULE OF QUANTITIES OF WORK TO BE DONE ON CONTRACT

Name and Address of the Vendor:							
Sl. No.	Sub- heads and items of work	Unit	Approximate Quantity	Departmental Rate/ unit Price (Rs)	Departmental Rate in Words	Departmental Amount in Rs.	Departmental Amount in Words
1	Clearing the dust, earth, rubbish etc accumulated in the side of the road, wharf frontage/berths, container yard etc including sweeping and depositing the materials upto a lead of 6km as per the direction of Engineer-in-Charge	m2	1,920.00	13.20	Rupees Thirteen and Twenty Paise Only	25,344.00	Rupees Twenty Five Thousand Three Hundred Forty Four Only
2	Providing Bitumen premix in 50mm layers for filling pot holes, easing the undulations etc. to the required level and camber, hire charges of tools etc.	m3	42.00	5775.20	Rupees Five Thousand Seven Hundred Seventy Five and Twenty Paise Only	242,558.40	Rupees Two Lakh Forty Two Thousand Five Hundred Fifty Eight and Forty Paise Only
3	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom on bituminous surface @ 0.25kg/sqm	m2	12,430.00	15.00	Rupees Fifteen Only	186,450.00	Rupees One Lakh Eighty Six Thousand Four Hundred Fifty Only
4	Providing and laying Dense Graded Bituminous Macadam using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tipper, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge 50 to 100 mm average compacted thickness with bitumen of grade VG-30 @ 3.50% (percentage by weight of total mix) and lime filler @3% (percentage by weight of Aggregate)and waste plastic additive 8% (percentage by weight of bitumen) prepared in Drum Type Hot Mix Plant of 60-90 TPH	m3	325.00	10523.80	Rupees Ten Thousand Five Hundred Twenty Three and Eighty Paise Only	3,420,235.00	Rupees Thirty Four Lakh Twenty Thousand Two Hundred Thirty Five Only
5	Providing and laying semi-dense Bituminous concrete using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tipper, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge 25 mm compacted thickness with bitumen of grade VG-30 @ 5% (percentage by weight of total mix) and lime filler @ 2% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	m3	280.00	14874.20	Rupees Fourteen Thousand Eight Hundred Seventy Four and Twenty Paise Only	4,164,776.00	Rupees Forty One Lakh Sixty Four Thousand Seven Hundred Seventy Six Only

6	Providing and applying 2.5 mm thick road marking strips (retroreflective) of specified shade / colour using hot thermoplastic material by fully / semi automatic thermoplastic plant applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material including cost of all labour, materials, equipments etc. complete as per detailed specifications and directions of the Engineer-in-charge.	m ²	175.00	825.30	Rupees Eight Hundred Twenty Five and Thirty Paise Only	144,427.50	Rupees One Lakh Forty Four Thousand Four Hundred Twenty Seven and Fifty Paise Only
7	Providing and fixing Glow studs of size 100x20 mm made of heavyduty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge	Nos	575.00	266.90	Rupees Two Hundred Sixty Six and Ninety Paise Only	153,467.50	Rupees One Lakh Fifty Three Thousand Four Hundred Sixty Seven and Fifty Paise Only
8	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to Wet Mix Macadam (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub-base /base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-charge.	m ²	537.00	3589.80	Rupees Three Thousand Five Hundred Eighty Nine and Eighty Paise Only	1,927,722.60	Rupees Nineteen Lakh Twenty Seven Thousand Seven Hundred Twenty Two and Sixty Paise Only
9	Providing and applying tack coat using bitumen emulsion conforming to IS: 8887, using emulsion pressure distributor including preparing the surface & cleaning with mechanical broom with rapid setting bitumen emulsion on W.B.M / W.M.M. @ 0.4kg/sqm	m ²	3,580.00	22.60	Rupees Twenty Two and Sixty Paise Only	80,908.00	Rupees Eighty Thousand Nine Hundred Eight Only
10	Providing and laying factory made 100mm thick Cement Concrete paver blocks(M-40grade) thickness & size / made by table vibratory method , to attain superior smooth finish using PU or equivalent moulds, laid in required colour & pattern over 50mm thick compacted bed of 6mm coarse aggregate, compacting and proper embedding / laying of inter locking paver blocks into the 6mm coarse aggregate bedding layer through vibratory compaction by using plate vibrator, filling the joints with crusher sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand in drive ways or light traffic parking etc. all complete as per manufacturer's specifications & direction of Engineer -in-Charge:	m ²	3,580.00	1280.00	Rupees One Thousand Two Hundred Eighty Only	4,582,400.00	Rupees Forty Five Lakh Eighty Two Thousand Four Hundred Only

11	Providing 'No Parking' Sign Boards 900 mm diametre with support length of 3750 mm by manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type - IV of ASTM-D 4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC ; 67:2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theftresistant measures, mounted and fixed with 2 Nos. M.S. angles ofsize 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of requiredshade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical MS-Tee support to be painted in black and white colours).Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.	Nos	2.00	8150.10	Rupees Eight Thousand One Hundred Fifty and Ten Paise Only	16,300.20	Rupees Sixteen Thousand Three Hundred and Twenty Paise Only
TOTAL						14,944,589.20	Rupees One Crore Forty Nine Lakh Forty Four Thousand Five Hundred Eighty Nine and Twenty 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			
	Percentage Quoted above / below the Departmental Amount shown in the above Schedule	14,944,589					
* Note							
1. The Bidder shall quote both in figures and words							
2. The Bidders shall also quote Above / Below in words themselves in the last column							
3. Only two decimal digits will be accepted.							