



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

सं No. AAI/CL/AGM/ENGG[C]/AMC OPS AREA & FS /2023-'24/440 दिनांक DATE: 13/12/2023

सेवा में To

श्री.मधु एस शेखर SH. MADHU S SHEKAR

69/1, एम जी रोड, फोर्ट मोहल्ला MG ROAD, FORT MOHALLA,

यशस्विनी, मैसूर, कर्नाटक YASHASWINI, MYSORE, KARNATAKA-570004

By Hand/Regd. Post with A/D
/By Speed Post/By E-mail

कार्य का नाम Name of work : A/R & M/O Civil Works during 2023-'24, 2024-'25 at Calicut International Airport.

एस एच SH : परिचालन क्षेत्र और फायर स्टेशन में सिविल कार्यों के लिए वार्षिक अनुरक्षण अनुबंध
Annual Maintenance Contract for civil works in Operational Area and Fire Station

संदर्भ Ref: 1) ई-निविदा आईडी: E-Tender ID No: 2023_AAI_172761

2) Your e-tender dated: 04/12/2023 (वित्तीय बोली Financial Bid)

प्रिय महोदय Dear Sir (S),

1. भारतीय विमानपत्तन प्राधिकरण के अध्यक्ष की ओर से उपरोक्त उल्लिखित कार्य के लिए आपका ई-टेंडर आपके द्वारा उद्धृत प्रतिशत दर पर स्वीकार किया जाता है, जो सभी डीएसआर 2021 वस्तुओं और संलग्न मात्रा के बिल के अनुसार क्रमांक 87 एवं 88 आइटम को छोड़कर अतिरिक्त वस्तुओं की दरों से 9% कम है [जीएसटी को छोड़कर] Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the percentage rate quoted by you which is **9% [Excluding GST] below the rates of all DSR 2021 items and additional items except item no. 87 & 88 as per the bill of quantities attached.**
2. संयुक्त. महाप्रबंधक (इंजीनियरिंग-सिविल), इंजीनियरिंग विंग, भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डा कार्य का प्रभारी इंजीनियर होगा। आपसे संयुक्त महाप्रबंधक (इंजीनियरिंग-सिविल), इंजीनियरिंग विंग, भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डे पर 28/12/2023 तक अनुबंध समझौते पर हस्ताक्षर करने और पूरा करने के लिए कार्यालय में उपस्थित होने का अनुरोध किया जाता है। अनुबंध समझौता ₹200.00 (केवल दो सौ रुपये) मूल्य के गैर-न्यायिक स्टॉप पेपर पर निष्पादित किया जाएगा और स्टॉप पेपर की लागत आपके द्वारा वहन की जाएगी। Jt. Gen. Manager (Engg-Civil), Engineering Wing, AAI, Calicut Intl. Airport shall be the Engineer-in-charge of the work. You are requested to attend the office of Jt. Gen. Manager (Engg-Civil), Engineering Wing, AAI, Calicut Intl. Airport by **28/12/2023** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value ₹200.00 (Rupees Two Hundred only) and the cost of the stamp paper shall be borne by you.



3. सुरक्षा जमा राशि, निविदा दस्तावेज के जीसीसी पृष्ठ 16 पर अनुबंध के खंड 1ए के अनुसार आपके चालू बिल से काट ली जाएगी। The Security Deposit will be deducted from your running bill as per the Clause 1A of Clauses of Contract on page 16 of GCC of the tender document.
4. आपसे अनुरोध है कि अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार का विनियमन और सेवाओं की स्थिति) अधिनियम 1996, भवन और अन्य निर्माण श्रमिक कल्याण उपकर अधिनियम 1996 जैसा कि निविदा के जीसीसी के पृष्ठ संख्या 49-50 पर खंड 19 में निर्दिष्ट है और केंद्र और राज्य सरकार के नियम के प्रावधानों का अनुपालन करें। You are requested to comply with the provision of Contract labour (Regulation and Abolition) Act 1970 and contract labour (Regulation and Abolition) Central rules 1971 Child Labour (Prohibition & Regulation) Act 1986, Construction workers (Regulation of Employment and Condition of Services) Act 1996, Building and other Construction Workers Welfare Cess Act 1996 as specified in Clause 19 on page no 49-50 of GCC of tender and rules thereof Central and State Governments.
5. आपको वरिष्ठ प्रबंधक- (इंजीनियरिंग-सिविल), भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाईअड्डा से संपर्क करने का भी निर्देश दिया जाता है। हवाई अड्डा तुरंत आपको साइट सौंपने की व्यवस्था करेगा। कृपया ध्यान दें कि कार्य को पूरा करने के लिए अनुमत समय 18 [अठारह] महीने होगा और इसकी गणना 16.12.2023 से की जाएगी। You are also directed to contact **Sr. Manger-(Engg-Civil)**, AAI, Calicut Intl. Airport immediately who will arrange to hand over the site to you. Please note that the time allowed for carrying out the work shall be **18 [Eighteen] months** and same shall be reckoned from 16.12.2023.
6. अनुबंध के संबंध में कोई भी आगे का पत्राचार सामान्यतः प्रभारी अभियंता को संबोधित किया जाना चाहिए। Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.
7. कृपया पावती स्वीकार करें और इसके साथ संलग्न इस पत्र की दूसरी प्रति हस्ताक्षर करने के बाद स्वीकृति के प्रतीक के रूप में अधोहस्ताक्षरी को लौटा दें। Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance

भवदीय Yours faithfully,

संलग्नक **Encl: BOQ (11 pages)**

सं.म/प्रबंधक(ई-सी) **Jt. Gen. Manager (Engg-C)**

इंजीनीयरिंग विंग **Engineering Wing,**

भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाईअड्डा **AAI, Calicut Intl. Airport**
कृते & अध्यक्ष की ओर से **For and on behalf of the Chairman**

BILL OF QUANTITIES**Name of work : A/R & M/O Civil Works during 2023 - 24, at Calicut International Airport****SH: Annual Maintenance Contract for civil works in Operational Area and Fire Station. during 2023 - 24 and 2024 - 25****All DSR 2021 Items
and
Additional Items from Item No. 01 to Item No. 88**

Item No.	Item Description	Unit	Rate Rs. Ps.
	<u>Sub head I - Schedule DSR 2021</u> <u>All DSR 2021 schedule items (with upto date correction slip)</u>	DSR 2021 Units	DSR 2021 rates
	<u>Sub head II - Schedule Items other than DSR 2021</u>		
1	Laterite masonry with laterite stone blocks of size 0.35 x 0.21 x 0.20 m with cement mortar 1 : 6 (1 cement : 6 coarse sand) including dressing of sides etc. complete as per the direction of Engineer in charge Up to plinth level.	cum	5260.44
2	Laterite masonry with laterite stone blocks of size 0.35 x 0.21 x 0.20 m with cement mortar 1 : 6 (1 cement : 6 coarse sand) including dressing of sides etc. complete as per the direction of Engineer in charge. Above plinth level up to floor V level	cum	6115.13
3	Dry laterite stone pitching with laterite stone blocks and preparing surface etc. complete.	sqm	758.95
4	Dry laterite stone pitching with laterite stone blocks issued by department free of cost at various stacked locations in the operational area and preparing surface etc. complete.	sqm	199.31
5	Carriage of materials by mechanical transport including loading, unloading, stacking etc. complete as per the direction of Engineer-in-charge. Laterite blocks 1 km Note: For the purpose of payment, securely transported block of dimension 0.35 x 0.21 x 0.20 will be counted as each	each	5.74
6	Carriage of materials by mechanical transport including loading, unloading, stacking etc. Complete as per the direction of Engineer-in-charge. Laterite blocks 2 km Note: For the purpose of payment, securely transported block of dimension 0.35 x 0.21 x 0.20 will be counted as each	each	6.30
7	Carriage of materials by mechanical transport including loading, unloading, stacking etc. Complete as per the direction of Engineer-in-charge. Laterite blocks 3 km Note: For the purpose of payment, securely transported block of dimension 0.35 x 0.21 x 0.20 will be counted as each	each	6.85
8	Carriage of materials by mechanical transport including loading, unloading, stacking etc. Complete as per the direction of Engineer-in-charge. Laterite blocks 4 km Note: For the purpose of payment, securely transported block of dimension 0.35 x 0.21 x 0.20 will be counted as each	each	7.36

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
9	Laterite masonry with laterite stone blocks of size 0.35 x 0.21 x 0.20 m, issued by department free of cost at various stacked locations in operational area with cement mortar 1 : 6 (1 cement : 6 coarse sand) including dressing of sides etc. complete as per the direction of Engineer in charge Up to plinth level.	cum	2324.61	
10	Laterite masonry with laterite stone blocks of size 0.35 x 0.21 x 0.20 m, issued by department free of cost at various stacked locations in operational area with cement mortar 1 : 6 (1 cement : 6 coarse sand) including dressing of sides etc. complete as per the direction of Engineer in charge Above plinth level up to floor V level	cum	3179.31	
11	Random rubble masonry with available hard stone, issued by department free of cost at various stacked locations in operational area, in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) up to plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	3424.08	
12	Random rubble masonry with available hard stone, (issued by department free of cost at various stacked locations in operational area), in superstructure above plinth level and up to floor five level, levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. Cement mortar 1:6 (1 cement: 6 coarse sand)	cum	4566.89	
13	Dismantling laterite work manually/by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 meters lead as per direction of Engineer-in-charge. In Cement mortar	cum	1182.45	
14	Providing & fixing weep holes in the masonry wall of any width at an inclination of 25° or more (upward slope towards city side/ soil side of retaining wall) using 110 mm (4") un-plasticized Rigid PVC (4 kgf) pipes conforming to IS : 13592 Type A, including cutting masonry work and fixing in cement mortar 1:6 (1 cement : 6 coarse sand) and making good the wall etc. complete of approved quality .	metre	234.47	
15	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps, EWC, IWC, Wash basin, kitchen sink, bottle traps, floor traps, house drain, storm water drain etc. of any diameter and size including removal of malba as directed by Engineer-in-charge. Building side drain (open)	metre	7.41	
16	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps EWC, IWC, Wash basin kitchen sink, bottle traps, floor traps, house drain, storm water drain etc. of any diameter and sizes i/c removal of drain cover, cleaning of drain, removal of malba, grass and any other vegetation etc., replacing the drain covers in place etc. complete as directed by Engineer-in-charge. Building/ Runway/ Taxiway side drain (closed)	metre	32.69	
17	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps EWC, IWC, Wash basin kitchen sink, bottle traps, floor traps, house drain, storm water drain etc. of any diameter and sizes i/c removal of malba as directed by Engineer-in-charge. Storm water Drain (Roadside)	metre	27.50	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
18	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps EWC, IWC, Wash basin kitchen sink, bottle traps, floor traps, house drain, storm water drain etc. of any diameter and sizes i/c removal of malba as directed by Engineer-in-charge. Storm water drain (Runway side)	metre	37.96	
19	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps EWC, IWC, Wash basin kitchen sink, bottle traps, floor traps, house drain, storm water drain etc. of any diameter and sizes i/c removal of malba as directed by Engineer-in-charge. Chute drain (Embankments Area)	metre	29.48	
20	Cleaning of underground water tanks/surface water tanks and removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. For 50,000 litre capacity tank	each	4459.06	
21	Cleaning of underground water tanks/surface water tanks and removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. For 1,00,000 litre capacity tank	each	6631.49	
22	Cleaning of underground water tanks/surface water tanks and removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. For 3,00,000 litre capacity tank	each	9114.84	
23	Cleaning of GI/MS/Masonry/Sintex overhead water tanks including removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. Up to 1000 litre capacity tank	each	509.66	
24	Cleaning of GI/MS/Masonry/Sintex overhead water tanks including removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. Above 1000 litre, up to 5000 litre capacity tank	each	1749.84	
25	Cleaning of GI/MS/Masonry/Sintex overhead water tanks including removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. Above 5000 litre, up to 10,000 litre capacity tank	each	4368.60	
26	Cleaning of GI/MS/Masonry/Sintex overhead water tanks including removal of malba and disinfecting the tank with bleaching powder as directed by the Engineer-in-Charge. Above 10000 litre and up to 50000 litre capacity tank	each	5624.11	
27	Providing and fixing 1/2" dia health faucet (Cera or equivalent) with wall hook and flexible tube up to 1 metre long of quality and make as approved by Engineer - in - charge.	each	801.93	
28	Providing and fixing CP brass pillar cock with aerator of approved make and quality conforming to IS standards for wash basin. 15mm nominal bore	each	979.25	
29	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 20mm outer dia	metre	41.44	
30	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 25mm outer dia	metre	60.91	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
31	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 32mm outer dia	metre	81.41	
32	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 40mm outer dia	metre	119.52	
33	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 50.00 mm outer dia	metre	148.09	
34	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 63 mm inner dia	metre	185.71	
35	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 75 mm inner dia	metre	220.49	
36	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS : 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 100 mm nominal inner dia	metre	1146.59	
37	Providing and fixing un-plasticized Rigid PVC (10 kgf) pipes conforming to IS: 13592 Type A complete with fittings in water line, sewer line, vent pipes etc. complete. The rate is inclusive of cutting, finishing etc., with required slope as per the direction of Engineer-in-charge. 150 mm nominal inner dia	metre	2242.75	
38	Providing and fixing UPVC pipes (Schedule 80), having thermal stability for water supply including all plain & brass threaded fittings. This includes jointing of pipes & fittings with one step solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 65 mm nominal inner dia pipes.	metre	590.59	
39	Providing and fixing UPVC pipes (Schedule 80), having thermal stability for water supply including all plain & brass threaded fittings. This includes jointing of pipes & fittings with one step solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 80 mm nominal inner dia pipes.	metre	717.41	
40	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 65 mm dia nominal bore	metre	944.41	
41	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 80 mm dia nominal bore	metre	1099.95	
42	Providing and fixing available G.I. pipes supplied by department free of cost, at various stacked locations in operational area complete with G.I. fittings including trenching and refilling etc. External work 80 mm nominal bore	metre	144.05	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
43	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 20 mm nominal bore	each	439.30	
44	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 25 mm nominal bore	each	839.12	
45	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 50 mm nominal bore	each	2177.53	
46	Providing and fixing GI flange of approved quality including cutting and threading the pipe and making long screws etc. complete as per the direction of engineer in charge : 50 mm dia	each	560.19	
47	Providing and fixing GI flange of approved quality including cutting and threading the pipe and making long screws etc. complete as per the direction of engineer in charge: 2.5 inch dia	each	679.65	
48	Providing and fixing GI flange of approved quality including cutting and threading the pipe and making long screws etc. complete as per the direction of engineer in charge: 100 mm dia	each	1070.52	
49	Providing and fixing brass valve of approved quality as per the direction of engineer in charge: 15 mm nominal bore	each	325.84	
50	Providing and fixing CPVC ball valve of approved quality as per the direction of engineer in charge : 4 inch nominal bore	each	10167.51	
51	Providing and fixing on wall face un-plasticised - CPVC moulded fittings/ accessories for un-plasticised Rigid CPVC pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Ball valve 2.5 inch nominal bore	each	5095.10	
52	Providing and fixing on wall face un-plasticized - PVC moulded fittings/ accessories for un-plasticized Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion. Bend 45° 110 mm bend	each	170.25	
53	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar cock, 32mm CP brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required: White Vitreous China Flat back wash basin size 400 x 360 mm with single 15 mm C.P. brass pillar tap	each	3616.19	
54	Providing and fixing pre-coated galvanized iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.40 mm (+0.05 %) total coated thickness with zinc coating 150 grams per sqm as per IS: 277, in 240 MPa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length up to 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5 x 55 mm) with EPDM seal, complete up to any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. JSW or equivalent	sqm	550.00	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
55	Providing and fixing glazing in structural steel, window, ventilator shutters and partitions etc. with silicone complete as per the architectural drawings and the directions of Engineer-in-charge: With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm).	sqm	902.44	
56	Deduction for scaffolding already considered in the analysis of finishing walls with a) synthetic enamel paint of required shade b) acrylic smooth exterior paint @ 0.90 litre per 10 sqm.	sqm	-1.00	
57	Fixing available concertina coil fencing with required dia 610 mm (having 50 no's round per 6 metre length) up to 3m height of wall with existing angle iron 'Y' shaped placed 2.4 m or 3.00 m apart all complete as per direction of Engineer-in-charge. The concertina coil will be provided by the department free of cost at various stacking yards within the operational area. The rate is inclusive of carriage of the item from the stacking yard to the work site and nothing extra will be paid in this regard.	metre	35.87	
58	Providing and fixing available concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length (total length 90 m), having 50 no's rounds per 6 metre length, up to 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with available 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately). The concertina coil and RBT wire will be provided by the department free of cost at various stacking yards within the operational area. The rate is inclusive of carriage of the item from the stacking yard to the work site and nothing extra will be paid in this regard.	metre	65.89	
59	Removal of rubber deposit/ excess bitumen bleeding on runway surface using water jetting/ water blasting/ vacuuming system, low impact method which involves water jetting technology with suitable operating pressure so that the total rubber deposit is removed and pavement surface texture and condition remains intact or as directed by the EIC and cleaning, removing all dirt, waste material etc. as per the direction of EIC.	sqm	145.57	
60	Removal of paint on apron/ runway surface using low impact method like water jetting/ water blasting/ vacuuming system with suitable operating pressure so that the entire marking is removed and pavement surface texture and condition is kept intact or as directed by the EIC. The work shall also include application of chemical if required, cleaning, removing all paint particles, dirt, waste material etc. as per the direction of EIC.	sqm	287.00	
61	Carriage including loading and unloading to any lead and lift (within the operational area) and banking of Moorum issued by the department, (free of cost at stacked locations in operational area), in layers not exceeding 20 cm in depth, breaking clods, watering, rolling with power roller of minimum 8 tonnes and dressing up etc. along the edge of pavement or as directed by the EIC.	sqm	68.40	
62	Providing and operating road roller for levelling soil in the operational area including driver charges, fuel charges etc. complete. Note:-Minimum 4 working hours is required to be measured as a man day	day	10156.86	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
63	Providing and operating the backhoe loader for levelling, cutting etc. in the operational area including transportation to and from the site of operation, fuel and driver charges and other incidental expenses on this account etc. as directed by the Engineer-in-Charge. (The payment will be based on the number of hours worked at the site.)	hour	954.71	
64	Providing and operating the hydraulic excavator (3D) for levelling, cutting etc. in the operational area including transportation to and from the site of operation, fuel and driver charges and other incidental expenses on this account etc. as directed by the Engineer-in-Charge. (The payment will be based on the number of hours worked at the site.)	hour	1242.37	
65	Providing and operating the hydraulic excavator (3D) with breaker attachment for levelling, cutting etc. of rocky terrain in the operational area including transportation to and from the site of operation, fuel and driver charges and other incidental expenses on this account etc. as directed by the Engineer-in-Charge. (The payment will be based on the number of hours worked at the site.)	hour	2484.74	
66	Providing and operating tipper of capacity 3.00 cum for transporting soil and excavated rock from one location to another within the premises of the work site to level the site, including transportation to and from the site of operation, fuel and driver charges and other incidental charges on this account etc. as directed by the Engineer-in-charge. (The payment will be based on the no. of days worked at the site.) Note:-Minimum 4 working hours is required to be measured as a man day	day	4300.51	
67	Providing and operating tipper of capacity 5.50 cum for transporting soil and excavated rock from one location to another within the premises of the work site to level the site, including transportation to and from the site of operation, fuel and driver charges and other incidental charges on this account etc. as directed by the Engineer-in-charge. (The payment will be based on the no. of days worked at the site.) Note:-Minimum 4 working hours is required to be measured as a man day	day	5256.19	
68	Providing and operating tipper of capacity 16.00 cum for transporting soil and excavated rock from one location to another within the premises of the work site to level the site, including transportation to and from the site of operation, fuel and driver charges and other incidental charges on this account etc. as directed by the Engineer-in-charge. (The payment will be based on the no. of days worked at the site) Note:- Minimum 4 working hours is required to be measured as a man day	day	7836.49	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
69	Ploughing the soft ground arrester (SGA) layer of RESA (Runway end safety area) at Calicut International Airport, under watch and ward during lean period of operations and/ or runway maintenance closure NOTAM, in coordination with Air Traffic Control/ Operations department of AAI, for a depth up to 15cm in a direction perpendicular to the direction of aircraft movement on the runway, by deploying mechanical equipment like tractor/ tiller fitted with cultivator ploughing attachment. The item is inclusive of removal of all uprooted vegetation growth, red soil, moorum etc. visible at surface level post-ploughing of the SGA layer, breaking clods, lumps etc. by deploying required manpower, rejuvenating the SGA layer to the specified depth of 15cm from the compacted earth beneath by adding extra M-sand if required etc. complete as directed by the Engineer-in-charge. (Note: The ploughing and clearing of vegetation from one RESA will be considered as one job and the M-Sand used for refilling will be measured and paid for separately. The frequency of this operation will be based on the prevalent SOP in this regard. Currently this contract is bound to involve 78 jobs of this nature over a tenure of 18 months of this contract)	job	6838.76	
70	Supply of M-Sand including loading, transportation to site, unloading and levelling for the soft ground arrester layer of RESA (Runway end safety area) at Calicut International Airport, under watch and ward during lean period of operations and/ or runway maintenance closure NOTAM, in coordination with Air Traffic Control/ Operations department of AAI, for a depth up to 15cm in compliance with the Civil Aviation Regulations and as per the direction of EIC. (The dumped sand should be levelled on the same day and no heaps above 15cm depth shall be visible on the RESA. The labour and equipment required for the same is already part of AMI 71 and nothing extra shall be paid in this regard)	cum	1653.71	
71	Supply and stacking including loading, unloading and secure stacking at site Bitumen Emulsion RS-1 in 200kg drums with low viscosity and fast setting time of approved manufacture and brand as per the direction of EIC. Note: A drum of 200kg of the above specifications will be measured as each for payment	each	15918.59	
72	Supply and stacking including loading, unloading and secure stacking at site cold mix (bitumen) in 50kg bags, for fast and hassle free solution for potholes, of approved manufacture and brand as per the direction of EIC. Note: A bag of 50kg of the above specifications will be measured as each for payment	each	1732.44	
73	Supply and stacking including loading, unloading and secure stacking at site 20 kg packs of Shalimastic RS TC (or equivalent) having 3 component (Component A (16 kg), Component B (3.20 kg) and Component C (0.80 kg) packed in one box , for filling of cracks, potholes of approved manufacture and brand as per the direction of engineer in charge. Note: A bag of 20kg of the above specifications will be measured as each for payment	each	3882.69	
74	Supply and stacking including loading, unloading and secure stacking at site polyurethane based primer used for ensuring better adhesion between old and new concrete for structural repair works like Shaliprime PUM or equivalent as per the direction of Engineer-in-charge	litre	436.16	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
75	Supply and stacking including loading, unloading and secure stacking at site of three- component, cold applied, polymerized elastomeric concrete like Shalipatch EC or equivalent as per the direction of Engineer-in-charge with excellent adhesion to substrate, rapid curing and excellent resistance to chemical, oil, acids, alkalies, fuels and minerals for crack filling in concrete/ flexible roads and surface correction in concrete road/ pavement.	kg	300.09	
76	Supply and stacking including loading, unloading and secure stacking at site of fast setting high strength thixotropic roadway patching mortar Master Emaco S 650 or equivalent as per the direction of Engineer-in-charge in 25kg bags for horizontal repairs where the thickness of repair is more than 10mm and the patch will be subject to traffic loads and where rapid return to service is required. Note: A bag of 25kg of the above specifications will be measured as each for payment	each	1433.51	
77	Supply and stacking including loading, unloading and secure stacking at site ready to use micro concrete composed of good quality special cement, graded aggregates & additives/ chemicals to produce a free flowing non shrink repair material used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are restricted or not easily accessible for proper placement of concrete using vibrator.	kg	33.46	
78	Supply and stacking including loading, unloading and secure stacking at site epoxy resin based structural bonding agent used for ensuring monolithic bond between old and new concrete for structural repair works like Shalibond concrete or equivalent as per the direction of Engineer-in-charge	kg	634.66	
79	Cutting PQC surface to get a regular shape with straight edge using a cutting machine, dismantling the damaged portion of slab using mechanical device like compressor and/ or jack hammer etc. up to a depth of 40 cm as required at site, and as directed by EIC, preparing the surface by thorough cleaning, removing all loose particles and/ or dust etc. to receive the bonding agent, removing the dismantled material and rubbish etc. to the approved dumping location; lead up to 2km by mechanical means etc. complete as per the direction of EIC [The area of groove cut will be measured for payment purpose]	sqm	1616.87	
80	Laying of micro concrete after thoroughly mixing in the approved proportion of water, aggregate and micro concrete, mixing using mixing paddle/ speed drill mixer (300-400 RPM) in drum or other mechanical device after preparing the surface by thorough cleaning and wire brushing for removing all dust and loose particles, applying a priming coat of epoxy bonding agent like Cera bond EP or equivalent, and then laying mixed micro concrete in the cut portion up to a depth of 40 cm with necessary centering and shuttering for sides to restore the original shape of slab and curing all complete as per the manufacturers' specifications and as per the directions of EIC [The aggregate, epoxy bonding agent and micro concrete will be issued by department free of cost at various stacking yards in the operational area. The plan area of laid concrete will be measured in sqm for payment]	sqm	1175.18	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
81	Laying of cold applied, polymerized elastomeric concrete by mixing resin component and aggregate component thoroughly by using speed drill mixer (300-400 RPM) and then adding hardener component slowly ensuring complete dispersion by mixing for 2-3 minutes, applying a priming coat of suitable primer as per manufactures' specifications, pouring mixed material in to the cracks, finishing the surface with trowel and curing for at least 2 hours etc. complete as per manufacturers' specifications and as per the direction of Engineer-in-charge. [The resin component, aggregate component, hardener component and primer will be issued by department free of cost at various stacking yards within the operational area. The plan area of concrete pavement repaired/ patched with the above mix will be measured for payment]	sqm	852.04	
82	Laying of Shalimastic RS TC supplied by department free of cost at various stacking yards within the operational area on the cracks found on the flexible pavement of the runway, taxiway, turning pad etc. during lean period of operations after removing loose gravel, dirt, oil, grease and foreign matter by jet of dry air, clearing all standing water in the area of application etc. The methodology of application shall be as per the technical specifications of the item and the specifications mentioned by the manufacturer for the same and as per the direction of Engineer-in-charge.	metre	15.97	
83	Providing and applying waterproofing treatment using two component acrylic polymer modified elastomeric waterproofing compound fosroc brush bond or approved equivalent . Apply the second coat of brush bond as soon as the first coat has reached touch dry state. the treatment including cutting 'v' groove along the construction joint/wall-floor joints and filling the same and honey combed area with polymer modified mortar. All as per the manufactures specifications and the direction of engineer in charge.	m	764.54	
84	Supplying and fixing in position 40mm 400MD HDPE fishing nets along the roof and wall facia of prefabricated steel buildings so as to prevent bird activity along the edges and crevices of structural steel members as per the direction of Engineer-in-charge. The rate is inclusive of all activities involved in the process including fixing the nets in position using ropes, scaffolding for fixing the ropes along the roof facia etc. and nothing extra shall be paid in this regard.	sqm	58.05	
85	Supplying and filling in pre-excavated area with coco peat supplied in bags including leveling, declogging and dressing complete. The rate is inclusive of all activities involved in the process including loading at supply point, unloading at site, transportation to work site etc. and nothing extra shall be paid in this regard.	bag	161.86	
86	Job contract for executing the survey within the operational area of Calicut Airport during lean period of operations by deploying highly skilled surveyors with surveying equipment like total station, dumpy level etc. as per requirement and all related accessories. The rate is inclusive of the hire charges of the equipment and manpower, survey of designated area, preparation of drawings, submission of original data sheets, level sheet, drawings etc. and nothing extra shall be payable in this regard. Note:- 8 working hours will be measured as a day.	Day	7645.36	
87	Providing unskilled/semi skilled workers for temporary nature of works/works unsusceptible to measure as and when required including necessary T & P. (For e.g.. works like shifting of store/office, verification of annual stock, filling water in desert cooler, shifting of materials to prevent encroachment on AAI land, survey work and other misc. works as directed by the Engineer-in-charge). Unskilled labour/helper	day	840.23	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
88	Providing unskilled/semi skilled workers for temporary nature of works/works unsuceptible to measure as and when required including necessary T&P. (For e.g.. works like shifting of store/office, verification of annual stock, filling water in desert cooler, shifting of materials to prevent encroachment on AAI land, survey work and other misc. works as directed by the Engineer-in-charge). Semi-skilled labour/helper	day	948.60	
	Note: The above / below percentage quoted by contractor not applicable for the Item No.87, 88. The rates shown here only shall be payable. (refer method of payment on page No SCC-20)			

Signature Not Verified

Digitally signed by BIJU
Date: 2024.04.02 10:15:38 IST
Location: eProcurement System for
Central PSUs