



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No. AAI/CL/AGM/ENGG[C]/AMC OPS AREA & FS/2022-23/93

DATE: 31/03/2022

To

M/s. DORALL Infrastructures & Developers [P] Ltd
9/365, Ambalangadan, Melangadi
Kondotty, Malappuram
Kerala- 673638

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

Name of work : A/R & M/O Civil Works during 2022-'23, 2023-'24 at Calicut International Airport.

SH : Annual Maintenance Contract for civil works in Operational Area and Fire station.

Ref : 1) E-Tender ID No: 2022_AAI_101993

2) Your e-tender dated: 25/03/2022 (Financial Bid)

Dear Sir (S),

1. 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 -3.33% [Excluding GST] less the rates of all DSR 2018 items and additional items except item no.81 & 82 as per the bill of quantities attached.
2. Dy. Gen. Manager (Engg-Civil)/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 Dy. Gen. Manager (Engg-Civil)/Jt. Gen. Manager (Engg-Civil), Engineering Wing, AAI, Calicut Intl. Airport by **15/04/2022** 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. The Security Deposit will be deducted from your running bill as per the Clause 1A of Clauses of Contract on page 16 of the tender document.
4. 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. You are also directed to contact **Manger-(Engg-Civil)**, AAI, Calicut Intl. Airport immediately who will arrange to hand over the site to you.

Bombolan
31/03/2022
Aen (D8-5)

(Contd... on page 2)

कालीकट अंतर्राष्ट्रीय हवाईअड्डा
Calicut International Airport

कालीकट हवाईअड्डा (डा.घ).
Calicut Airport (P.O).



केरल-673647
Kerala-673647

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Tender Inviting Authority: Asst. Gen. Manager [Engg-C], O/o HOD [Civil], Engineering Wing, AAI, Calicut Intl. Airport-673647

Name of Work: <A/R & M/O Civil Works during 2022-'23, 2023-'24 at Calicut International Airport. SH: Annual Maintenance Contract for civil works in Operational Area and Fire station>

Contract No: 2022_AAI_101993

Name of the Bidder/ Bidding Firm / Company :	DORALL INFRASTRUCTURES AND DEVELOPERS PVT LTD					
PRICE SCHEDULE						
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Base in Percentage	Net Percentage (Excluding GST)	Net Percentage in work (Excluding GST)
1	2	4	5	6	7	8
1	Percentage quoted above DSR'2018 and additional items in BOQ (Note: Percentage rate not applicable on Additional item No. 81 & 82) (Refer method of payment on page No SCC-20 for further details of payment)	1.00	Nos	100.00	100.00	INR One Hundred Only
Total in Figures					100.00	INR One Hundred Only
Quoted Rate in Figures		Less (-)	3.33%	96.67	INR Ninety Seven Only	
Quoted Rate in Words	INR Ninety Seven Only					

Benny Basha
 31/03/2022
 AEM (Engg-C)

BILL OF QUANTITIES

Name of work : /R & M/O Civil Works during 2022-'23, 2023-'24 at Calicut International Airport

SH: Annual Maintenance Contract for civil works in Operational Area and Fire station.

All DSR 2018 Items
and

Additional Items from Item No. 01 to Item No. 82

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
	Sub head I - Schedule DSR 2018			
	All DSR 2018 schedule items (with upto date correction slip)	DSR 2018 Units	DSR 2018 rates	
	Sub head II - Schedule Items other than DSR 2018			
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	4661.21	
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	5583.71	
3	Dry laterite stone pitching with laterite stone blocks and preparing surface etc. complete.	sqm	685.61	
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	183.14	
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	5.20	
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	5.71	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
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	6.21	
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	6.68	
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	2025.34	
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	2947.85	
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	2939.38	
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	3990.16	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
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	1055.20	
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	361.68	
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	6.62	
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	29.30	
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	24.56	
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	18.23	
19	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	4121.59	

Bannu Basha
31/03/2022
AQM (BGS-C)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
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 1,00,000 litre capacity tank	each	6061.62	
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 3,00,000 litre capacity tank	each	8372.76	
22	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	457.88	
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. Above 1000 litre, up to 5000 litre capacity tank	each	1564.84	
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 5000 litre, up to 10,000 litre capacity tank	each	3902.75	
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 10000 litre and up to 50000 litre capacity tank	each	5029.82	
26	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	549.93	
27	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	855.78	
28	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	51.39	
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. 25mm outer dia	metre	75.64	

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
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. 32mm outer dia	metre	101.58	
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. 40mm outer dia	metre	162.21	
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. 50.00 mm outer dia	metre	244.31	
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. 63 mm inner dia	metre	377.86	
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. 75 mm inner dia	metre	503.68	
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. 100 mm nominal inner dia	metre	1040.69	
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. 150 mm nominal inner dia	metre	2180.07	

B. B. Bhasin
31/03/2022
AM (098-6)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
37	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	979.61	
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. 80 mm nominal inner dia pipes.	metre	1158.08	
39	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	1192.93	
40	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	1418.47	
41	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	each	1286.73	
42	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 20 mm nominal bore	each	424.32	
43	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 25 mm nominal bore	each	613.68	
44	Providing and fixing gun metal ball valve with lever of approved quality (screwed end) : 50 mm nominal bore	each	2231.33	
45	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	485.91	
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: 2.5 inch dia	each	565.33	

B. B. B. B.
31/03/2022
AQM (Engs-c)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
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: 100 mm dia	each	970.32	
48	Providing and fixing brass valve of approved quality as per the direction of engineer in charge: 15 mm nominal bore	each	303.29	
49	Providing and fixing CPVC ball valve of approved quality as per the direction of engineer in charge : 4 inch nominal bore	each	8362.94	
50	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	6255.21	
51	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	165.50	
52	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 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	4052.06	
53	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	410.56	

Bombardier
31/03/2022
AAM (Engg-c)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
54	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	sqm	804.22	
55	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	-0.95	
56	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	33.75	
57	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	62.16	
58	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	128.30	

Benny Basheer
31/03/2022
Aqm (Engg)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
59	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	252.48	
60	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	66.54	
61	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	8380.26	
62	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	1078.67	
63	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	1176.73	
64	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	2451.51	

Bom Babbar
31/03/2022
AM (log-e)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
65	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	3922.42	
66	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	7844.85	
67	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	5973.85	

Benny Beekas
31/03/2023
AGM (E288-9)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
68	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	1451.33	
69	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	10189.17	
70	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	842.93	
71	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	1877.47	
72	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	409.21	

Ambar
31/03/2022
Am (Agg-c)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
73	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	411.85	
74	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	1593.49	
75	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	24.44	
76	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	852.42	
77	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	2283.27	

Bombalao
31/03/2022
AGM (Engs-e)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
78	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	1103.69	
79	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	664.54	
80	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	13.13	

Bombardier
31/03/2022
Per (Eng-c)

Item No.	Item Description	Unit	Rate	
			Rs.	Ps.
81	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). Unskilled labour/helper	day	730.51	
82	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	825.51	
	Note: The above / below percentage quoted by contractor not applicable for the Item No.81, 82. The rates shown here only shall be payable. (refer method of payment on page No SCC-20)			

Banubhakar
31/03/2024
AM (ENG-C)