



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

No. AAI/CLT/ENGG/ [E-C]/AMC-TBD/2022-23/85

दिनांक Date: 06.09.2022

सेवा में To

By Hand /Fax

By Reg. post with A/D

मेसर्स टीएटीआई कंस्ट्रक्शन (पी) लिमिटेड/M/s. TATI Construction (P) Ltd,

3/1010 एनपीएम कॉम्प्लेक्स / 3/1010 NPM Complex

बाईपास रोड, कोंडोट्टी/ Bypass Road, Kondotty

केरल - 673 638/ Kerala - 673 638

कार्य का नाम /Name of Work: 2022-23 के दौरान कालीकट इंटरनेशनल में ए/आर एंड एम/ओ सिविल वर्क्स। एयरपोर्ट। उपशीर्ष: 2022-23 के लिए टर्मिनल भवन और तकनीकी भवन के लिए वार्षिक रखरखाव अनुबंध /A/R & M/ O Civil work during 2022-23 at Calicut International Airport. SH: Annual maintenance contract for Terminal Building and Technical building for 2022-23

संदर्भ Ref : 1). टेंडर सं Tender ID No- 2022_AAI_123084

2). दिनांक 23.08.2022 को खुला हुआ आपका टेंडर Your Tender opened on DT: 23.08.2022

महोदय Sir,

- उपरोक्त कार्य के लिए आपकी निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आपके द्वारा उद्धृत प्रतिशत दर पर ₹75,60,000.00 (जीएसटी को छोड़कर) (पचहत्तर लाख और साठ हजार रुपये मात्र) की राशि के लिए स्वीकार की जाती है, जो -5.50% है। (पांच दशमलव पांच प्रतिशत से नीचे) मद संख्या 51 ए, बी को छोड़कर सभी डीएसआर 2021 मदों और अतिरिक्त मदों 1 से 77 की दरों से अधिक। Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India for an amount of ₹75,60,000.00 (Excluding GST)(Rupees Seventy Five Lakhs and Sixty Thousand Only) at the percentage rate quoted by you which is -5.50% (Below Five point Five Percentage) Below the rates of all DSR 2021 items and additional items 1 to 77 except item No.51 a,b.
- संम.प्रबंधक(इंजी-सिविल)/उप.महा प्रबंधक(इंजी-सिविल) भा.वि.प्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डा, कालीकट कार्य का अभियंता प्रभारी होगा। आपसे अनुरोध है कि उप.महाप्रबंधक इंजीनियरिंग [सिविल] / वरिष्ठ प्रबंधक-इंजीनियरिंग [सिविल], भा वि प्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डे कार्यालय में 22.09.2022 तक हस्ताक्षर करने और अनुबंध समझौते को पूरा करने के लिए उपस्थित हों। ठेका अनुबंध 200.00 रुपये (केवल दो सौ रुपये) के गैर-न्यायिक स्टाम्प पेपर पर निष्पादित किया जाएगा और स्टाम्प पेपर की लागत आपके द्वारा वहन की जाएगी। Jt.Gen.Manager-Engg [C]/Dy.Gen.Manager-Engg[C] AAI, Calicut Intl. Airport, Calicut, shall be the Engineer – in-

कालीकट अंतर्राष्ट्रीय हवाई अड्डा
Calicut International Airport

कालीकट हवाई अड्डा (डा.घ),
Calicut Airport (P.O),



केरल-673647 फ़ोन/Phone : 0483-2711 325
Kerala-673647 फ़ैक्स/Fax : 0483-2711 406

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charge of the work. You are requested to attend the office of Dy. Gen. Manager Engg [C]/Senior. Manager-Engg [C], AAI, Calicut Intl. Airport by 22.09.2022 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs.200.00 (Rupees Two Hundred only) and the cost of the stamp paper shall be borne by you.

- 3) कृपया इस पत्र के जारी होने के 10 दिनों के भीतर सुरक्षा जमा के रूप में ₹756000.00 (पचहत्तर हजार और छह सौ केवल)जमा करें, ऐसा न करने पर, पृष्ठ अनुबंध दस्तावेज़ का GCC-16 पर शर्त खंड 1 ए के अनुसार काट लिया जाएगा।
I Please deposit ₹7,56,000.00 (Rupees.Seven Lakhs and Fifty Six Thousand Only) towards Security Deposit within 10 days after the date of issue of this letter, failing which, the same will be deducted as per Condition Clause 1 A on page GCC-16 of the contract document.
- 4) आपसे अनुरोध है कि ठेका श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 और केंद्र और राज्य सरकारों के न्यूनतम मजदूरी अधिनियम और उसके नियमों के प्रावधानों का पालन 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 and minimum wages act and rules thereof Central and State Governments.
- 5) आपको तुरंत प्रबंधक इंजीनियरिंग-(सिविल) से संपर्क करने का भी निर्देश दिया जाता है, जो आपको साइट सौंपने की व्यवस्था करेगा।You are also directed to contact **Manager [Engg-Civil]**, immediately who will arrange to hand over the site to you.
- 6) कृपया ध्यान दें कि कार्य करने के लिए अनुमत समय 18 (अठारह) महीने होगा और इसकी गणना इस 07.09.2022 से की जाएगी। Please note that the time allowed for carrying out the work shall be 18 (Eighteen) Months and same shall be reckoned from the 07.09.2022.
- 7) अनुबंध के संबंध में कोई और पत्राचार सामान्य रूप से प्रभारी अभियंता को संबोधित किया जाना चाहिए।Any further correspondence in connection with the contract should normally be addressed to the Engineer – in –charge.
- 8) कृपया रसीद की पावती दें और इसके साथ संलग्न इस पत्र की डुप्लीकेट प्रति हस्ताक्षर करने के बाद अधोहस्ताक्षरी को स्वीकृति के प्रतीक के रूप में 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,

संलग्नEncl: BOQ 11 Pages

वरिष्ठ प्रबंधक इंजी(सिविल) Senior.Manager Engg (C)

भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डा AAI,Calicut Intl Airport

अध्यक्ष की ओर से On behalf of Chairman

SR. MANAGER (ENGG-CIVIL)

भाविप्रा, कालीकट अंतर्राष्ट्रीय हवाई अड्डा
AAI, CALICUT INTERNATIONAL AIRPORT

Note :In case of any discrepancy English version will be treated as valid.

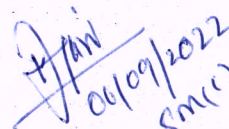
Schedule of Quantities

Name of work : A/R & M/O Civil Works during 2022-23 at Calicut Intl. Airport

SH: Annual Maintenance Contract for Terminal Building and Technical building for 2022-23

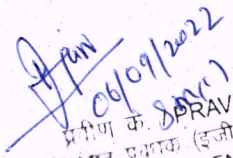
Item No.	Item Description	Unit	Rate (Rs.....Ps)
A	All DSR 2021 Items	As per DSR 2021	
B	ADDITIONAL ITEMS		
1.	Providing and fixing of forsted filim /etchin of approved make including cutting the film to the required size, pasting the film on glass without any air bubbles at all heights complete as per the direction of the engineer in charge. The rate shall be inclusive of material, labour, wastage, transportation etc.	sq.m	695.75
2.	Providing and applying silicone weather proofing sealant in expansion and control joints, precast concrete panel joints, non-structural curtain wall mullion joints, stress cracks and joints in parapet walls as instructed by the engineer in charge.	metre	259.02
3.	Providing and fixing of vertical venetian blind 100 mm wide made of polyester -viscose fabric of approved manufacturer with powder coated aluminium guide channel with fittings chains connecting chain at bottom and sufficient bottom weights in good condition of required colour and pattern etc, as per the direction of engineer in charge. (The venetian blind should be of 100mm width polyester viscose fabric 0.3mm to 0.4mm thick, weight between 250 to 350gms per sq.m, Opacity 60 to 80). The rate shall include cost of all the materials, fabrication, fixing charges, carriage and taxes.	sq.m	912.78
4.	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.		
	a) For 3.50 lakh litre capacity tank	Each	8563.59
	b) For 1.25 lakh litre capacity tank	Each	6222.14
5.	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.		
	a) For upto 1000 litre capacity	Each	474.98
	b) Above 1000 litre, upto 5000 litre capacity	Each	1619.84
	c) Above 5000 litre, upto 10,000 litre capacity	Each	4038.31
	d) Above 10,000 litre, upto 50,000 litre capacity	Each	5207.11

BOQ1


 प्रवीण क. / PRAVEEN K
 प्रमुख प्रबंधक (इंजी-सिविल)
 SR. MANAGER (ENGG-CIVIL)
 कानि प्रा. कार्पोरेशन अंतर्राष्ट्रीय हवाई अड्डा
 CALICUT INTERNATIONAL AIRPORT

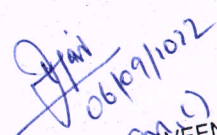
Item No.	Item Description	Unit	Rate (Rs.....Ps)
6.	Testing of water samples including collection of the samples from various sources and getting it tested from Kerala Water Authority, as instructed by the engineer in charge.	Each	1856.86
7.	Cleaning of choked/blocked rain water pipe, soil waste pipe, vent pipe, manhole, sewerage pipe, gully traps EWC,IWC,Wash bainskitchen 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 (road side) Open	Metre	22.65
8.	Laterite masonry with laterite stone blocks of size 0.32x0.20x0.20 with cement mortar 1 : 6 (1cement : 6 coarse sand including dressing of sides etc complete as per the direction of Engineer in charge upto plinth level.	cum	4863.68
9.	Laterite masonry with laterite stone blocks of size 0.35x0.21x0.20 with cement mortar 1 : 6 (1cement : 6 coarse sand including dressing of sides etc complete as per the direction of Engineer in charge above plinth level upto floor V level	cum	5910.25
10.	Hiring of JCB with fuel, operator etc. complete as directed by EIC	Hr	1301.30
11.	Hiring of tipper with fuel, operator, helper etc. complete as directed by EIC	Day	4004.00
12.	Hiring of small crane up to 5 tonne capacity for lifiting materials with fuel, operator. complete as directed by EIC	Hr	1251.26
13.	Supplying C.P. brass long body bib cock of KOHLER Cat No:16093IN-4 CP with Wall Flange or equivalent as per the directions of Engineer in Charge 15 mm nominal bore	Each	1201.20
14.	Supplying liquid soap container,of ONIDA/PRAYAG make with snap fittings or equivalent as per the directions of EIC.	Each	500.50
15.	Supplying pillar Cock with Wall Flange of jaquar,Hindware or equivalent as per the directions of Engineer in Charge	Each	782.13
16.	Supplying Health Faucet with Chian Tube & Wall Hook of jaquar(PS73-CHR-ALD) or equivalent as per the directions of Engineer in Charge	Each	1201.20
17.	Providing and fixing rubber moulded speed breaker as per the directions of Engineer in Charge	metre	3653.65
18.	Supplying Health Faucet with Chian Tube & Wall Hook of ONIDA or equivalent as per the directions of Engineer in Charge	Each	725.73

BOQ2


 06/09/2022
 प्रवीण के. संप्रवेण
 वरिष्ठ प्रशाक (इंजी-सिविल)
 SR MANAGER (ENGG-CIVIL)
 भारतीय वायुसेना अंतराष्ट्रीय हवाई अड्डा
 KALINGUT INTERNATIONAL AIRPORT

Item No.	Item Description	Unit	Rate (Rs.....Ps)
19.	Supplying of Jaguar (ALDCHR-769) ,ONIDA Bottle Trap or equivalent as per the directions of Engineer in Charge	Each	1286.29
20.	Supplying of DURACELL AA-RS 35 or equivalent batteries for urinal sensors as per the directions of Engineer in Charge	Each	50.05
21.	Supplying C P brass bottle trap -32mm for Urinal of "Hindware" make (Cat No:F850015), CERA (F8060401CH) or equivalent as per the directions of Engineer in Charge	Each	1351.35
22.	Supplying urinal sensor lens KHOLER(1056047) or approved equivalent make as per the directions of Engineer in Charge	Each	113.68
23.	Supplying EWC seat cover of CERA or equivalent as per the directions of Engineer in Charge	Each	750.76
24.	Supplying urinal water spreader of CP brass and of ONIDA make or equivalent as per the directions of Engineer in Charge	Each	420.42
25.	Supplying urinal push cock of CP brass and of ONIDA make or equivalent as per the directions of Engineer in Charge	Each	475.48
26.	Supplying urinal waste coupling 32 mm full threaded/ half threaded CP brass -ONIDA or equivalent as per the directions of Engineer in Charge	Each	465.46
27.	Supplying KHOLER July soft press auto closing faucet(20747IN-8-cp) or equivalent as per the directions of Engineer in Charge	Each	2574.60
28.	Supplying KHOLER droplet face plate(4177IN) or approved equivalent as per the directions of Engineer in Charge	Each	1153.70
29.	Supplying of super delux ball cock for cascade flushing cistern of approved make as per the directions of Engineer in Charge	Each	800.80
30.	Supplying of angle cock of CP brass of Jaguar,CERA or equivalent as per the directions of Engineer in Charge	Each	500.50
31.	Dismantling and refixing aluminium partitions/door with partly prelaminated board and galzing and refixing as per the site requirement including fabricatering into the required dimensions complete as per the direction of engineer in charge(The rate inclusive of labour, transportation etc)	Sqm	523.91
32.	Supplying and fixing Poly Vinyl chloride sheet in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesive of approved quality and manufacture like Fevicol SR998 or equivalent including rolling all complete as directed by the Engineer-in-Charge, in approved colour and shade. (a)2.00mm thick	sqm	455.65
33.	Providing and fixing PVC pipes (10 Kg) conforming to IS complete with fittings in water line sewerline, vent pipes, the rate inclusives of cutting,finshing etc., with required slope complete as per the direction of Engineer-in-charge		

BOQ3


 प्रवीण के. / PRAVEEN. K
 वरिष्ठ प्रबंधक (इंजी -सिविल)
 SR. MANAGER (ENGG-CIVIL)
 भा.वि.पा. कलकत अंतराष्ट्रीय हवाई अड्डा
 AAI CALCUT INTERNATIONAL AIRPORT

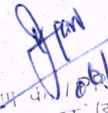
Item No.	Item Description	Unit	Rate (Rs.....Ps)
a	20 mm dia	metre	92.47
b	25mm dia	metre	105.48
c	32mm dia	metre	131.51
d	40 mm dia	metre	177.05
e	50 mm dia	metre	229.10
f	63 mm dia	metre	307.18
g	110 mm dia	metre	784.76
h	150 mm dia	metre	1625.40
i	Providing and fixing PVC pipes (6 Kg) 40 mm dia	metre	134.11
j	Providing and fixing PVC pipes (6 Kg) 50 mm dia	metre	166.64
k	Providing and fixing PVC pipes (6 Kg) 63 mm dia	metre	225.20
l	Providing and fixing PVC pipes (6 Kg) 110 mm dia	metre	508.88
m	Providing and fixing PVC pipes (6 Kg) 150 mm dia	metre	1017.69
34.	Providing and fixing at all heights partition of 12.5 mm thick tapered edge gypsm board conforming to IS : 2095 to the existing frame work including fixing to a flash finish of taped and square edges of the gypsm board with recommended filler paper tapes, finisher and two coats of primer suitable for gypsm board as per manufactures specification.	sq.m	464.50
35.	Providing and fixing at all heights partitions of 10 mm thick cement based bison board conforming to IS : to the existing frame work including finishing with recommended filler paper tapes, finisher and two coats of primer suitable for gypsm board as per manufactures specification.	sq.m	615.03

BOQ4

प्रवीण क. / PRAVEEN. K
 सहायक प्रबंधक (इंजी-सिविल)
 SR MANAGER (ENGG-CIVIL)
 भा.वि.प्र. अंतराष्ट्रीय हवाई अड्डा
 BH. CAUCUT INTERNATIONAL AIRPORT

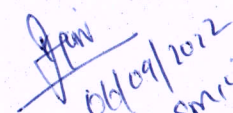
Item No.	Item Description	Unit	Rate (Rs.....Ps)
36.	Providing and fixing at all heights false ceiling to the existing frame work jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills,diffusers, cutouts made with frame of perimeter channels suitably fixed, after removing and cutting the damaged false ceiling board to a required size and shape at required height, etc all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting, 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I of saint- goabin or equivalent make	sq.m	759.34
37.	Providing and fixing commercial plywood of approved brand and quality for in partition or fababricating cupboard etc.as directed by EIC		
a	19 mm thick	sq.m	1114.57
b	12 mm thick	sq.m	1021.20
c	9mm thick	sq.m	958.28
d	6 mm thick	sq.m	873.37
38.	Providing and fixing marine plywood of approved brand and quality for in partition or fababricating cupboard etc.as directed by EIC		
a	19 mm thick	sq.m	1491.10
b	12 mm thick	sq.m	1350.20
c	9mm thick	sq.m	1225.16
d	6 mm thick	sq.m	1099.18
39.	Providing and fixing 1 mm thick laminate of approved make ,design, colour,shade all complete as per the directions of engineer in charge	sq.m	930.05
40.	Providing and fixing 9 mm thick prelaminated particle board flat pressed three layer or graded wood particle board interior grade in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge. Pre-laminated particle board with decorative lamination on both sides	sq.m	601.88
41.	Providing and fixing in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer-in-charge.		

BOQ5


 06/09/2022
 SR. MANAGER (ENGG-CIVIL)
 भा.वि.प्रा. कालिकट अंतराष्ट्रीय हवाई अड्डा
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Item No.	Item Description	Unit	Rate (Rs.....Ps)
a)	Hylum sheet-4mm thick	sq.m	575.87
b)	Multi wood -6 mm	sq.m	551.92
c)	Multi wood -9 mm	sq.m	746.46
d)	Multi wood -12mm	sq.m	970.74
e)	Multi wood -18 mm	sq.m	1270.72
f)	Aluminium Composite panel-4 mm thick	sq.m	2189.50
42.	Fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding material, fixing accessories such as nuts, bolts,fasteners etc.).	kg	228.78
43.	Providing and fixing urinal partition of size 900x450 mm of make jaguar(810UC450X-JSE-CHR) with froasted glass or approved make as per the directions of Engineer in Charge	Each	4514.51
44.	Supplying PVC pipes (10 kg) conforming to ISI complete of approved make as per the direction of Engineer-in-charge		
a	20 mm dia	metre	22.02
b	25mm dia	metre	32.03
c	32mm dia	metre	52.05
d	40 mm dia	metre	87.09
e	50 mm dia	metre	127.13
f	63 mm dia	metre	187.19
g	110 mm dia	metre	554.55
h	150 mm dia	metre	1201.20
i	Supplying PVC pipes (6 kg) 40mm dia	metre	54.05
j	Supplying PVC pipes (6 kg) 50 mm dia	metre	79.08
k	Supplying PVC pipes (6 kg) 63 mm dia	metre	124.12
l	Supplying PVC pipes (6 kg) 110 mm dia	metre	342.34
m	Supplying PVC pipes (6 kg) 150 mm dia	metre	733.73

BOQ6


 प्रवीण के. / PRAVEEN. K
 वरिष्ठ प्रबंधक (इंजी -सिविल)
 SR. MANAGER (ENGG-CIVIL)
 भा.वि.प्रा. कावेरि अंतराष्ट्रीय हवाई अड्डा
 AAI, CALICUT INTERNATIONAL AIRPORT

Item No.	Item Description	Unit	Rate (Rs.....Ps)	
45.	Providing and fixing 7 mm Pvc Profile ceiling sheet of evrlast or approved make in required colour for the door, partitions as per the direciton of Engineer-in-charge	sqm	434.92	
46.	Providing 7 mm Pvc Profile ceiling sheet of evrlast or approved make in required colour for the door, partitions as per the direciton of Engineer-in-charge	sqm	322.05	
47.	Providing and fixing pre-coated galvanised 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 (5.5x 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	504.92	
48.	Supplyiig H KNOB for cistern shine finish of CERA(B1120101SF) EWC or approved make as per the directions and satisfaction of EIC.	Each	1065.47	
49.	Providing and fixing patch lock (best make of approved quality) for glass doors including necessary cutting and making good etc. complete	Each	1189.62	
50.	Providing and fixing of pvc marking sticker of approved colour and of required shape as per direction of Engineer in Charge	sq.m	700.10	
51.	Providing unskilled/semi skilled workers for temporary nature of works/works unsuceptable to measure as and when required including necessary T&P. (Ex.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).			
	a) Unskilled worker	Each	648.73	*
	b) Semi-Skilled worker	Each	733.20	*
52.	Providing superflo cistern caliber (Syphone) of approved quality as per the direction of Engineer in charge	Each	1601.60	
53.	Supplying tissue paper holder of Prayag or equivalent make as per the direction of Engineer in charge	Each	500.50	

BOQ7

प्रवीण क. / PRAVEEN K
 वरिष्ठ प्रबंधक (इंजीनियरिंग)
 SR. MANAGER (ENGG-CIVIL)
 भा.पि.न. कॉलेज अंतराष्ट्रीय हवाई अड्डा
 AAI, CALICUT INTERNATIONAL AIRPORT

Item No.	Item Description	Unit	Rate (Rs.....Ps)
54.	Supplying 6" PVC rainwater gutter of approved make as per the direction of Engineer in charge	metre	255.26
55.	Supplying pillar cock with wall flange or equivalent as per the direction of Engineer in charge	Each	762.62
56.	Clearing of vegetation growth using grass cutting machine (The rate inclusive hire charges of grass cutting machine, cost of labour & fuel, over heads and contractor profit)	Sqm	2.48
57.	Providing and fixing 3 mm thick acrylic sheet partition in custom counters and immigration counters or any other counters as per the direction of EIC	Sqm	2152.15
58.	Cleaning of sewer line connecting manhole to manhole by rope and ball method including removal of sludge and disposing the sludge by digging a pit refilling and leveling the same 100m away from the site without disturbing the operation of airport.	Nos	222.92
59.	Cleaning of saucer drain/ kerb edge including removal of silt/debris/grass etc after removing gratings wherever existing and refixing after attending work and disposal and levelling of the same upto a lead of 200m away from the site without disturbing the operations of Airport.	metre	3.43
60.	Desilting and cleaning of storm water drain open/covered by first removing the RCC slabs on drain top where ever is there, then desilting of drain, disposal of debris/liquid mud upto a lead of 200 m away from site and refixing precast RCC slab in position	metre	39.89
61.	Cleaning of sewage collection well of approx size 11mx12mx2.30m and pumping well having dia 3.0m and depth 5.0 m at NITB by manual means including disposal of sewage away from Airport premises etc complete all as per the direction of Engineer in charge.	Job	12163.16
62.	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.		
a	Manhole i/c connected soil waste/sewerage pipe upto the next manhole (rate i/c labours,pumping charge etc)	Nos	745.59
b	Gully traps I/c connected soil waste/sewerage pipe upto the nearest manhole	Nos	156.01
c	EWC/IWC/I/c urinal connected traps and soil waste pipe upto the nearest opening point in the soil waste pipe	Nos	51.25
d	d) Roof terrace cleaning i/c cleaning of rain water pipe inlets	sqm	1.69

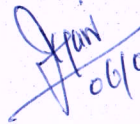
BOQ8

प्रवीण के. / PRAVEEN K
वरिष्ठ प्रबंधक (इंजी-सिविल)
SR. MANAGER (ENGG-CIVIL)
भा.वि.प्रा., कालिकट अंतराष्ट्रीय हवाई अड्डा
AAI, CALICUT INTERNATIONAL AIRPORT

06/09/2022
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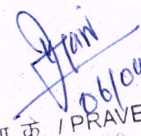
Item No.	Item Description	Unit	Rate (Rs.....Ps)
63.	Providing and applying PU grouting waterproofing treatment using MYK Aquafin p4(I) , Nitofill UR 63 or approved equivalent which provides a low viscous, elastic and solvent-free polyurethane injection resin for permanent waterproof sealing of cracks and construction joints. It forms, in contact with water a uniform, closed and therefore watertight pore structure, shall be injected in to these ports with help of an electrical grouting pump of pressure 10000 psi. The item includes required staging material, labour consumable etc as per direction of engineering incharge.	kg	1601.60
64.	Providing and fixing packers as per direction of engineer in charge for applying PU grouting including charges for applying PU foam/resin. The work includes cost of packers it's fixing charges and tagging if required as per the direction of EIC.	each	500.50
65.	Annual operation of civil installations of terminal building like toilet fittings, sewer line, partitions and other accessories by deploying trained man power on all days including sundays, public holidays and national holidays. The job includes day to day satisfactory operation of water supply, sanitary, masonry, carpentry installations like tap leakages, block removal of wash basin/sink/gully traps/manholes/storm water pipes preventive/corrective maintenance , minor problems in Aluminium/wooden doors/windows and door closere, loose false ceiling, wooden panels, galzing panels, repair drain/rain water pipes and any other petty/urgent works, checking water levels in all storage tanks, ensuring the sufficient quantity of water in all storage tanks, co-ordinating with electrical department for propoer pumping if required etc., by deploying qualified and trained Technical manpower for 24 Hours in 3 shifts who are employees of the contracting firm etc. complete as per the directions of Engineer-in-Charge. The deployed person should also check the complaint register daily and attend to the minor day to day complaints of nature mentioned above in co-ordianatin with Terminal department. The rate shall be inclusive of necessary tools and equipments required and minor consumbles like screws, nails, washers, nuts and bolts etc.	Month	67901.89
66.	Masonry with precast cement concrete solid 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	4670.22
67.	Masonry with precast cement concrete solid 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	5624.52

BOQ9


 06/09/2022
 SMC
 प्रवीण के. / PRAVEEN. K
 वरिष्ठ प्रबंधक (इंजी-सिविल)
 SR. MANAGER (ENGG-CIVIL)
 भा.वि.प्र. कॉलेज अंतरराष्ट्रीय हवाई अड्डा
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Item No.	Item Description	Unit	Rate (Rs.....Ps)
68.	Providing and fixing in position 4mm thick Aluminium composite panels(ACP) in external face, column, city side truss joining RCC beam area, and any other location in required profiles as per direction of Engineering in charge. Approved make confirming to ASTM standard/ specification core sandwiched between two skins of 0.5mm thick to have overall thickness of 4mm with exterior coating of PVDF paint. The item includes straight/ slope curvilinear profiles and shapes including all accessories and incidental works. This item also includes application of approved silicon sealant in the joints to make it watertight. The ACP sheets to be fixed using mechanical fastens and cleats on structures. The cost includes ACP material, cleats, labours, fastners, screws etc. to fix aluminium composite panels to walls, aluminium frame work in required profiles including cutting in truss joining area as per the direction of Engineer In Charge. Only the cost of Aluminium required for fixing ACP sheet as per site requirement, framework wherever required will be paid extra in additional item no 69.	Sqm	2918.84
69.	Providing and fixing Aluminium for fixing ACP and other cladding sheets as per direction of Engineer in charge. Hollow sections of size 50x25x3mm and 25x38mm to be provided and fixed in this item. This item includes necessary screws, bolts and fastners required for fixing Aluminium sections in required profiles (including bending if required) to concrete, walls and column and any other faces. The weight of aluminium only measured in kilogram and nothing extra shall be payable.	kg	332.82
70.	Providing and fixing 6mm thick mirror with studs as per the direction of Engineer in charge in approved sizes and shapes in toilets. The rates includes material, labour, machineries and fixing charges in nothing extra shall be payable.	Sqm	1573.24
71.	Supply at site coldmix, for fast and hassle free solution for patholes, of approved manufacture and brand as per the direction of EIC	Kg	18.33
72.	Transporting drinking water from KINFRA, Kakenchery, Malappuram including pumping from KINFRA loading, transporting and unloading to UG sump of Calicut Intl. Airport at the earliest as and when required and as per the directions of the Engineer in charge. (Water will be arranged By AAI from KINFRA and the rate inclusive of pumping charge, transportation charge including tanker,driver , fuel, maintenance and other incidental charge)	Ltr	0.16
73.	Providing and applying PU grouting waterproofing treatment using MYK Aquafin p1(I) , Nitofill ws 60 or approved equivalent which provides a fast foaming, low viscous and solvent-free water reactive polyurethane injection foam resin for temporary water stopping. The material cures a very fine cellular structure. Shall be injected in to these ports with help of an electrical grouting pump of pressure 10000 psi. The item includes required staging material, labour consumable etc as per direction of engineering incharge.	kg	1601.60

BOQ10


 प्रवीण के. / PRAVEEN K
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Item No.	Item Description	Unit	Rate (Rs.....Ps)
74.	Providing and applying waterproofing treatment using two component acrylic polymer modified elastomeric waterproofing compound fosroc brush bond or approved equivalent in two coats. 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.	Sqm	580.59
75.	Surface preparation cost including labour and equipment charges for chipping of existing finishing plaster, screed, brickbats etc for applying acrylic polymer modified elastomeric waterproofing as per direction of engineer incharge.	Sqm	120.12
76.	Providing and fixing of suncontrol tinted polyester film of prescribed make including cutting the film to the required size, pasting the film on glass without any air bubbles at all heights complete as per the direction of the engineer in charge. The rate shall be inclusive of material, labour, wastage, transportation etc.	Sqm	572.52
77.	Shifting of available laterite block from operational area to site as per the direction of EIC	Cum	468.72

***Percentage rate not applicable on this item no 51 (a,b). The rates shown here only shall be payable.**

The payment of items shall be regulated as below(a)Schedule of rate as per DSR 2021 and Additional Miscellaneous items (except for item No. 51 a,b)

The payment of items shall be regulated as below

(a)Schedule of rate as per DSR 2021 and Additional Miscellaneous items (except for item No. 51 a,b.) mentioned Below is (-)5.50 % Below (Below Five Point Five Only)

Rate of item as per schedule = X

Rate to be considered for payment = $\frac{(X/1.1405) \times (100 \pm \text{Quoted Percentage Rate})}{100}$

For item No. 51 a,b. rate shown in SOQ only shall be considered for payment

Percentage rate applicable over DSR 2021 items and Additional Items 1 to 77 except item No.51 a & b) mentioned Above is (-) 5.50% Below (Five Point Five below Only)

Senior Manager Engg (C)
AAI, Calicut Intl. Airport

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