



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

संदर्भ सं. : भाविप्रा/गो/इले/संमप्र (अभि-वि)/का. आ.-20/2020-21/02
Ref. No.: AAI/GO/ELE/JGM(E-E)/W.O.-20/2020-21

दिनांक: 23.02.2021
Date: 23.02.2021

द्रुतगामी डाक द्वारा / By SPEED POST

सेवा मे, To,
M/s. Elkosta Security Systems India
101, Mercantile House,
15 Kasturba Gandhi Marg,
New Delhi - 110001

कार्य का नाम: गोवा हवाई अड्डे पर नागरिक कार्यों के साथ सुरक्षा उपकरणों का प्रावधान ।

Name of Work: Provision of security equipments with Civil works at Goa Airport.

संदर्भ : आपका दिनांक 18.01.2021 को खोला गया ई-टेंडर । टेंडर आई डी:
2020_भाविप्रा_64301_1

Ref: Your E-tender opened on 18.01.2021 for **Tender ID: 2020_AAI_64301_1**

महोदय/Dear Sir (s),

- 1) ऊपर उल्लेखित कार्य हेतु आपका ई-टेंडर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गये मद मूल्यों पर आपकी टेंडर राशि, कुल **₹. 1,24,41,280/-** (एक्सक्लूडिंग जीएसटी) (रुपये एक करोड़ चौबीस लाख इकतालीस हजार दो सौ अस्सी मात्र) है, जो कि उचित लागत **₹. 1,40,29,032/-** (एक्सक्लूडिंग जीएसटी), से **11.32%** कम है।
- 1) Your E-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India at the item rates quoted by you totaling to **Rs. 1,24,41,280/- (excluding GST)** (Rupees One Crore Twenty Four Lakh Forty One Thousand Two Hundred Eighty Only), which is **11.32% below** the justified cost put to tender of **Rs. 1,40,29,032/- (excluding GST)**.
- 2) संयुक्त महाप्रबंधक (अभि-वि), भा.वि.प्रा., गोवा एयरपोर्ट इस कार्य के प्रभारी अभियंता होंगे । आपसे निवेदन है कि आप करारनामे पर हस्ताक्षर करने के लिए दिनांक: **04.03.2021** तक संयुक्त महाप्रबंधक (अभि-वि), भा.वि.प्रा गोवा एयरपोर्ट के कार्यालय में उपस्थित हो तथा करारनामे को पूरा करें। ठेके का करारनामा 100/- रु (रुपये एक सौ मात्र) के नॉनजुडीशियल स्टैम्प पेपर पर निष्पादित किया जाएगा, तथा स्टैम्प पेपर का खर्च आपके द्वारा उठाया जाएगा
- 2) **Jt. General Manager (Engg.-E)**, AAI, Goa Airport shall be the **Engineer-in-charge** of the work. You are requested to attend the office of Jt. General Manager (Engg.-E), AAI, Goa Airport, Goa, by **04.03.2021** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.

Handwritten signature and date 23/2

- 3) कृपया इस पत्र के जारी होने की तिथि के 10 दिनों के भीतर जमानत राशि **रु. 12,44,128/-** (रुपये बारह लाख चवालीस हजार एक सौ अट्ठाईस मात्र) जमा करें। अन्यथा यह राशि ठेके के दस्तावेज के पृष्ठ 16 पर दी गई शर्त 1A के अनुसार काट ली जायेगी।
- 3) Please Deposit **Rs. 12,44,128/-** (Rupees Twelve Lakh Forty Four Thousand One Hundred Twenty Eight Only), towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per condition of clause no 1A at page no. 16 of contract document.
- 4) आपसे निवेदन है कि अनुबंध श्रम (विनियम और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1997 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार का नियमन और सेवा की शर्त) अधिनियम 1996, भवन और निर्माण श्रमिक कल्याण उपकरण अधिनियम 1996 के अनुसार निविदा जी सी सी और केंद्रीय और राज्य सरकार के भवन और निर्माण कल्याण उपकरण अधिनियम 1996 के पृष्ठ सं 49 पर खंड 19 में विनिर्दिष्ट नियमों का पालन करें।
- 4) You are requested to comply with the Provisions 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 Service) Act 1996, Building and other Construction Workers Welfare Cess Act 1996 as specified in Clause 19 on page no 49 of GCC of tender and rules of Central and State Government.
- 5) आपको निर्देश दिया जाता है कि आप तुरंत सहायक महाप्रबंधक (अभि-वि), भाविप्रा., गोवा एयरपोर्ट से मिलें, वह आपको साइट सौंपने की व्यवस्था करेंगे।
- 5) You are also directed to contact **Asst. General Manager (Engg-E)**, Airports Authority of India, Goa Airport immediately who will arrange to hand over the site to you.
- 6) कृपया नोट करें कि काम करने की अवधि **04 महीने** है, जो कि इस पत्र के जारी होने की तारीख के बाद दसवे दिन से गिना जाएगा।
- 6) Please note that the time allowed for carrying out the work shall be **04 Months**, and same shall be reckoned from the 10th day after issue of this letter.
- 7) इस ठेके के संबंध में सभी पत्राचार प्रभारी अभियंता, को सम्बोधित किया जाये।
- 7) Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.
- 8) कृपया स्वीकृति के प्रतीक के रूप में इस पत्र के साथ संलग्न दूसरी प्रतिलिपी में हस्ताक्षर करने के बाद अधोहस्ताक्षरी को वापस करें।
- 8) 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,

संयुक्त महाप्रबंधक (अभि-वि) / Jt. General Manager (E-E)

भा.वि.प्रा., गोवा विमानतल/AAI, Goa Airport.

कृते तथा ओर से, अध्यक्ष, भा.वि.प्रा.,/For and on behalf of Chairman, AAI

संलग्न/Encl: SOQ (Schedules of Quantities) / एस ओ क्यू

SCHEDULE - A

Name of work: Provision of security equipments with Civil works at Goa Airport.

Tender ID NO: 2020_AAI_64301_1

Sr. No.	Description of item	Units	Qty	Rate	Amount
1.00	SH-I Electrical Supply, Installation, testing and Commissioning of straight type boom barrier of 5 metre suitable for a road width of 9.9 metres with i.)torque motor drive ii.)Microprocessor/PLC based control unit iii.)Galvanised steel with powder coated enclosure iv.)housing steel frame of GI vi.)with open/close option mechanically in case of power failure vii.)with push button and remote control panel viii.)having IP 54 or higher ix.)having warning light/traffic light x.)nominal operating on power supply Of 230 Volts,50 Hz xi.)meeting technical specifications attached xii.)boom made of aluminium or superior material with retroreflective stickers, rubber pads for safety xiii.)opening and closing time not more than 5 seconds xiv.)providing and laying of control cable,power cable (In ground DWC pipe at a depth of 0.75 mtr), fixing of control switches /remote control modules in designated rooms and all civil works and accessories etc complete as required. (Refer Technical Specifications Attached for more details)	Job	4.00	160000.00	640000.00
2.00	Supply, Installation, testing and Commissioning of K4 rated hydraulic retractable automatic bollards for a road width of 9.9 metres with i.) having minimum 1000 mm height for each bollard ii.)having minimum 220 mm diameter for each bollard iii.)raising/lowering time of not more than 4 to 6 seconds iv.)material of construction of cylinder ST52/S355JR grade steel with Stainless steel cover v.)with push button and remote control vi.)having IP 66 vii.)having provision for manual down operation in case of power failure viii.)nominal operating on power supply Of 440Volts(nominal),50 Hz, 3 Phase/230 Volts (nominal),50 Hz , 1 Phase. ix.)meeting technical specifications attached x.)distance between each bollard (centre to centre) shall not be more than 1.2 metres and not less than 10 No. of bollards. xi.)shall be provided with circular illuminated LED lights xii.)adequate safety against vehicle and humans(loop detectors and photo sensors) xiii.)PLC/Microprocessor based control system xiv.)providing and laying of control cable, power cable(In ground DWC pipe at a depth of 0.75 mtr) fixing of control switches /remote control modules in designated rooms and all civil works like excavation for foundation. providing of foundation of suitable size for the system and accessories etc complete as required. (Refer Technical Specifications Attached for more details)	Job	1.00	3300000.00	3300000.00


 23/12/21
 JUMED

Sr. No.	Description of item	Units	Qty	Rate	Amount
3.00	Supply, Installation, testing and Commissioning of K4 rated hydraulic retractable automatic bollards for a road width of 6.8 metres with i.) having minimum 1000 mm height for each bollard ii.) having minimum 220 mm diameter for each bollard iii.) raising/lowering time of not more than 4 to 6 seconds iv.) material of construction of cylinder ST52/S355JR grade steel with Stainless steel cover v.) with push button and remote control vi.) having IP 66 vii.) having provision for manual down operation in case of power failure viii.) nominal operating on power supply of 440Volts(nominal), 50 Hz, 3 Phase/230 Volts (nominal), 50 Hz, 1 Phase. ix.) meeting technical specifications attached x.) distance between each bollard (centre to centre) shall not be more than 1.2 metres and not less than 7 No. of bollards. xi.) shall be provided with circular illuminated LED lights xii.) adequate safety against vehicle and humans (loop detectors and photo sensors) xiii.) PLC/Microprocessor based control system xiv.) providing and laying of control cable, power cable (In ground DWC pipe at a depth of 0.75 mtr) fixing of control switches /remote control modules in designated rooms and all civil works like excavation for foundation. providing of foundation of suitable size for the system and accessories etc complete as required. (Refer Technical Specifications Attached for more details)	Job	1.00	2310000.00	2310000.00
4.00	Supply, Installation, testing and Commissioning of K4 rated hydraulic retractable automatic bollards for a road width of 7.8 metres with i.) having minimum 1000 mm height for each bollard ii.) having minimum 220 mm diameter for each bollard iii.) raising/lowering time of not more than 4 to 6 seconds iv.) material of construction of cylinder ST52/S355JR grade steel with Stainless steel cover v.) with push button and remote control vi.) having IP 66 vii.) having provision for manual down operation in case of power failure viii.) nominal operating on power supply of 440Volts(nominal), 50 Hz, 3 Phase/230 Volts (nominal), 50 Hz, 1 Phase. ix.) meeting technical specifications attached x.) distance between each bollard (centre to centre) shall not be more than 1.2 metres and not less than 8 No. of bollards. xi.) shall be provided with circular illuminated LED lights xii.) adequate safety against vehicle and humans (loop detectors and photo sensors) xiii.) PLC/Microprocessor based control system xiv.) providing and laying of control cable, power cable (In ground DWC pipe at a depth of 0.75 mtr) fixing of control switches /remote control modules in designated rooms and all civil works like excavation for foundation. providing of foundation of suitable size for the system and accessories etc complete as required. (Refer Technical Specifications Attached for more details)	Job	1.00	2640000.00	2640000.00
5.00	Supply of LT power cable of 1.1 KV grade of following sizes Aluminium conductor XLPE insulated PVC sheathed armoured/unarmoured cable conforming to IS 7098 (Part-I) -1988 with upto date amendment as required. 4Cx25Sqmm	Mtr	948.00	105.00	99540.00

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JYMLEE

Sr. No.	Description of item	Units	Qty	Rate	Amount
6.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr	590.00	55.00	32450.00
7.00	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required Upto 35 Sqmm	Mtr	590.00	55.00	32450.00
8.00	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing alongwith existing surface /recessed conduit/ submain wiring/cable as required.	Mtr	1580.00	45.00	71100.00
9.00	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)	Each	6.00	12000.00	72000.00
10.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single pole and neutral	Each	13.00	900.00	11700.00
11.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole and neutral	Each	6.00	1500.00	9000.00
12.00	Supplying and making end termination with brass compression gland and aluminium lugs for following size for PVC/ XLPE insulated and PVC sheathed armoured aluminium conductor cable of 1.1. KV grade as required : 4 x 25 sq.mm. (28mm)	Set	10.00	500.00	5000.00
13.00	Supply and laying of 50mm dia ISI marked B class GI pipe after cutting the bituminous/concrete portion of the road, excavating the remaining earth under the road to make a trench of 75cm depth from the surface of the road laying and alignment of pipe, back filling of trench with available earth, filling the bituminus portion with cement concrete upto finished road level after properly consolidating the earth, curing the concrete etc complete as required as per the direction of Engineer In Charge.	Mtr	30.00	600.00	18000.00
14.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in 20mm surface / recessed "B" Class MS conduit and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group C	Point	18.00	350.00	6300.00
15.00	Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in 20mm surface/ recessed "B" Class MS conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required. Group C	Point	7.00	350.00	2450.00

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23/2/24
DYNUS

Sr. No.	Description of item	Units	Qty	Rate	Amount
16.00	Wiring for circuit/ submain wiring alongwith earth wire with (2 X 4 sq. mm + 1 X 4 sq. mm earth wire) FRLS PVC insulated copper conductor, single core cable in 25mm surface/ recessed medium class MS conduit complete as required.	Mtr	500.00	125.00	62500.00
17.00	Supplying and fixing 6 Module GI box on surface or in recess with suitable size of modular phenolic laminated sheet cover in the front including providing and fixing 2 numbers 6-pin 6Amps/16 amps Modular socket outlet and 2 numbers 16 amps modular type Switch complete as required.	Each	14.00	800.00	11200.00
18.00	Supplying and fixing 8 Module GI box on surface or in recess with suitable size of modular phenolic laminated sheet cover in the front complete as required.	Each	1.00	1200.00	1200.00
19.00	Supplying and fixing 3 Module GI box on surface or in recess with suitable size of modular phenolic laminated sheet cover in the front complete as required.	Each	8.00	600.00	4800.00
20.00	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 Amps One way Modular Switch	Each	30.00	250.00	7500.00
21.00	Supplying and fixing one module stepped type electronic fan regulator(modular type) on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	2.00	250.00	500.00
22.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) 8 Way SPN DB	Each	1.00	1500.00	1500.00
23.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Single Pole	Each	22.00	900.00	19800.00
24.00	SITC of LED Linear Light of 20 Watt rating with driver, suitable channel complete with prewired accessories as required, suitable to operate on 230V, 50 Hz AC supply. (Make: Wipro CleanRay ProLED LL13 20W or equivalent)	Each	10.00	800.00	8000.00
25.00	SITC of 33 Watt rating Square type(2feet x 2 feet) high efficiency recess mounted LED Fitting with driver complete with prewired accessories as required, suitable to operate on 230V, 50 Hz AC supply. (Make: Wipro VergeLED LM29 33W or equivalent) (Suitable for fixing on Grid type False Ceiling)	Each	6.00	800.00	4800.00
26.00	Supply, of following Fans / Exhaust fans / Wall fans etc. i/c supply and installation of flexible cords, hardwares etc complete. Ceiling fan, 1200 mm	Each	2.00	3000.00	6000.00
27.00	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Job	2.00	500.00	1000.00

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23/11/14
JYNGED

Sr. No.	Description of item	Units	Qty	Rate	Amount
28.00	SITC of oscillation type Wall mounted fan(with speed regulation) of 400mm sweep size with prewired accessories, end connection complete as required.	Each	2.00	500.00	1000.00
29.00	SITC of metallic body exhaust fan of 300mm sweep size with prewired accessories, end connection complete as required.	Each	2.00	500.00	1000.00
30.00	Supplying and fixing 40 amps rating, 415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Three Pole and Neutral	Each	6.00	1200.00	7200.00
31.00	SITC of Recess Mounted LED Downlighter of 18 Watt rating with control gear complete with prewired accessories and making end connection, suitable to operate on 230V, 50 Hz AC supply complete as required.	Each	4.00	800.00	3200.00
32.00	SH - II Civil Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	Cum	45.00	600.00	27000.00
33.00	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil Pipes, cables etc, not exceeding 80 mm dia.	Mtr	8.00	600.00	4800.00
34.00	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : All kinds of soil Pipes, cables etc. Exceeding 80 mm dia. but not exceeding 300 mm dia	Mtr	8.00	600.00	4800.00
35.00	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge: All kinds of soil	Sqm	358.00	600.00	214800.00
36.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	25.00	6000.00	150000.00
37.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size).	Cum	5.00	6000.00	30000.00

CPM
28/11/2017
(JYAL/EE)

Sr. No.	Description of item	Units	Qty	Rate	Amount
38.00	Providing and fixing Hilti 24mm dia hilti M24 anchor bolt of 300mm length (HIT V-8-8), including drilling hole, and fixing the bolt with compactable chemical fastener/mortar..etc complete as per the drawings and direction of Engineer In Charge.	Nos	56.00	1100.00	61600.00
39.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level 1:5:10 (1 Cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size).	Cum	56.00	6000.00	336000.00
40.00	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 Cement : 2 coarse sand (Zone -III) : 4 graded stone aggregate 12.5 mm nominal size).	Sqm	8.60	6000.00	51600.00
41.00	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	8.60	6000.00	51600.00
42.00	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	Sqm	555.00	400.00	222000.00
43.00	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering complete precast cement solid blocks 30x20x10cm of average compressive strength of 5.00 N/mm ²	Cum	65.00	800.00	52000.00
44.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Suspended floors, roofs, landings, balconies and access platform	Sqm	40.00	250.00	10000.00
45.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	13.00	250.00	3250.00
46.00	Centering and shuttering including strutting, propping etc. and removal of form for all heights Edges of slabs and breaks in floors and walls Under 20 cm wide	Mtr	42.00	1200.00	50400.00
47.00	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	Cum	4.70	15000.00	70500.00
48.00	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	400.00	120.00	48000.00
49.00	12 mm cement plaster of mix 1:6 (1 cement: 6 coarse sand)	Sqm	125.00	120.00	15000.00
50.00	15 mm cement plaster on rough side of single or half brick wall of mix: 1:6 (1 cement: 6 coarse sand)	Sqm	125.00	120.00	15000.00

CPJ
JANUARY

Sr. No.	Description of item	Units	Qty	Rate	Amount
51.00	6 mm cement plaster of mix 1:3 (1 cement : 3 fine sand)	Sqm	40.00	100.00	4000.00
52.00	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	145.00	250.00	36250.00
53.00	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	120.00	110.00	13200.00
54.00	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	Sqm	50.00	3000.00	150000.00
55.00	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm	Sqm	4.00	3500.00	14000.00
56.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	15.00	3500.00	52500.00
57.00	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	4.70	3500.00	16450.00


 25/12/20
 JYMEER

Sr. No.	Description of item	Units	Qty	Rate	Amount
58.00	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including 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 in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per	Sqm	30.00	800.00	24000.00
59.00	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	6900.00	80.00	552000.00
60.00	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 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 upto 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 upto 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.	Sqm	110.00	150.00	16500.00
61.00	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	Kg	2500.00	80.00	200000.00
62.00	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	Kg	1200.00	80.00	96000.00

GYL
 23/11/17
 J4MCEE

Sr. No.	Description of item	Units	Qty	Rate	Amount
63.00	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade. Two or more coats on new work	Sqm	290.00	120.00	34800.00
64.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	190.00	350.00	66500.00
65.00	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	65.00	350.00	22750.00
66.00	Providing and fixing 12 mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, 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	Sqm	7.00	1200.00	8400.00
67.00	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber /neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 6.00 mm thickness	Sqm	11.00	1200.00	13200.00

CTJL
25K
JUNE

Sr. No.	Description of item	Units	Qty	Rate	Amount
68.00	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer in- charge Extruded section profile size 48x40 mm	Mtr	10.00	900.00	9000.00
69.00	Providing and fixing to existing door frames. 30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a uPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	Sqm	3.20	4500.00	14400.00
70.00	Providing and fixing PTMT handles with necessary screws etc. complete. 125x34x24 mm weighing not less than 23 gms	Nos	4.00	1800.00	7200.00
71.00	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete. 152x42x18 mm weighing not less than 60 gms	Nos	2.00	4200.00	8400.00
72.00	Providing and fixing PTMT Tower Bolts with 12 mm one piece rod inside and necessary screws etc., complete. 202x42x18 mm weighing not less than 78 gms	Nos	2.00	6000.00	12000.00
73.00	Providing and fixing aluminium round shape handle of outer dia 100 mm with SS screws etc. complete as per direction of Engineer-incharge Powder coated minimum thickness 50 micron aluminium	Nos	2.00	150.00	300.00
74.00	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete. Single rubber stopper	Nos	1.00	300.00	300.00
75.00	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank. Circular tank	Ltr	500.00	10.00	5000.00

CSXL
28/12
JGULED

Sr. No.	Description of item	Units	Qty	Rate	Amount
76.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.	Mtr	20.00	1200.00	24000.00
77.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 50 mm nominal outer dia Pipes	Mtr	80.00	600.00	48000.00
78.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. 15 mm nominal outer dia Pipes Internal work - Exposed on wall	Mtr	2.00	800.00	1600.00
79.00	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 15 mm nominal outer dia Pipes	Mtr	8.00	800.00	6400.00
80.00	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) 50 mm nominal bore	Nos	1.00	6500.00	6500.00
81.00	Providing and fixing brass stop cock of approved quality : 15 mm nominal bore	Nos	1.00	2500.00	2500.00
82.00	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete 15 mm nominal bore	Nos	1.00	650.00	650.00
83.00	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	Nos	2.00	15000.00	30000.00
84.00	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Nos	2.00	2500.00	5000.00


 12312
 SGMEE

Sr. No.	Description of item	Units	Qty	Rate	Amount
85.00	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe - 32 mm dia	Nos	2.00	450.00	900.00
86.00	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length - 15 mm nominal bore	Nos	4.00	310.00	1240.00
87.00	Providing & fixing PVC nahani trap with jali of size 110 mm of Plasto/Prince/ Kisan or approved equivalent as per direction of Engineer-Incharge.	Nos	2.00	600.00	1200.00
88.00	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 15 mm nominal bore	Nos	2.00	800.00	1600.00
89.00	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931. 15mm nominal bore	Nos	4.00	2500.00	10000.00
90.00	Providing and fixing SWR single socketed solvent jointed pipes (type B as per IS: 13592) Prince/Plasto/Kisan or equivalent for soil, waste and vent including required fittings.This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 110 mm dia pipe	Mtr	10.00	1500.00	15000.00
91.00	Providing and fixing PVC SWR single socketed solvent jointed pipes (type B as per IS: 13592) Prince/Plasto/Kisan or equivalent for soil, waste and vent including required fittings.This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. 75 mm dia pipe	Mtr	15.00	1000.00	15000.00
92.00	Providing and placing in possition, PVC septic tank of capable of handling 20-25 flushes per day (type II of united make or equivalent), including placing in possition, connection to inlet and outlet pipes, CPVC vent pipe with all necessary accessories such as vent cowl.. etc complete as per the direction of Engineer In Charge.	Nos	1.00	40000.00	40000.00
93.00	Constructing soak pit 1.20x1.20x1.20 m filled with brickbats including CPVC pipe 110 mm diameter and 1.20 m long complete as per standard design.(Edging to be done with CC solid blocks of 30x20x10mm)	Nos	1.00	45000.00	45000.00
TOTAL					Rs. 1,24,41,280.00


Jt. General Manager (Engg.-E)
AAI, Goa Airport