



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No: AAM/ENGG/ELEC/AMED-II/ASD/ 2023-24/A-10

Date: 03.08.2023

To

M/s. Technocrats Security Systems Pvt. Ltd.
Unit-2, Model Industrial Colony,
Vishweshwar Nagar, Off Aarey Road,
Goregaon(E), Mumbai – 400 063.

Name of the Work: “Replacement of Automatic Sliding doors at Chennai Airport - Phase-III.”

1. Ref: - Tender ID. 2023_AAI_158071_1.

2. Your E-Tender Opened on 26.07.2023.

Dear Sirs,

1. Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to **₹ 50,04,650.00 (Rupees Fifty Lakhs Four Thousand Six Hundred and Fifty Only) Excluding GST** Which is 5.08% Below the Estimated Cost put to tender ₹ 52,27,400.00 (Rupees Fifty Two Lakhs Twenty-Seven Thousand Four Hundred and Only) Excluding GST.
2. Joint General Manager Engineering (Elec)-II EMD, Operational Office, Airports Authority of India, Chennai Airport, Chennai – 600016 shall be the Engineer-in charge of the work. You are requested to attend the office of Joint General Manager Engineering (Elec)-II, AAI, Chennai Airport on or before 14.08.2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. The Earnest Money amount of **₹ 1,05,448 (Rupees One Lakh Five Thousand Four Hundred and Forty-Eight Only)** received along with your tender will be release after 1st RA bill of work. Please deposit the amount of **₹ 5,00,465.00 (Rupees Five Lakh Four Hundred and Sixty-Five Only)** towards Security Deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per conditions of clause 1A of the contract 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 and minimum wages act and rules there of Central and State Governments.
5. You are also directed to contact Asst. Manager Engineering (Electrical) Airport Maintenance Electrical Division II, Operational Office, Airports Authority of India, Chennai Airport immediately who will arrange to hand over the site to you.
6. Please note that the time allowed for carrying out the work shall be **04 (Four) Months** and same shall be reckoned from 7th day of issue of work order.

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7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in charge.
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.

Yours faithfully,

K. Ramesh Babu 03/08/2023

K. RAMESH BABU,
Senior Manager (Engg. -Elect.)
AAI Chennai.

Encl: Schedule of Quantities (03 Pages)

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AIRPORTS AUTHORITY OF INDIA
चेन्नै ऐयरपोर्ट:: चेन्नै 600 016
CHENNAI AIRPORT:: CHENNAI 600 016

SCHEDULE OF QUANTITY

Name of the Work: Replacement of Automatic Sliding doors at Chennai Airport - Phase-III.

S. No.	Description	Qty	Unit	Rate	Amount
1	Toughened clear Glass with frame / PVC Foam white sheet-with frame for Automatic sliding doors moving leaf				
1(a)	Supply & fixing of Glass make of St.Gobain or approved equivalent of 12mm thickness. All the glass edges to be machine grinded and edge polished. Rate inclusive of all materials, labour, lead and lift, transports, insurance, wastage, accessories, staging, scaffolding, power, water and overheads etc complete as per the direction of engineer in charge.	140	Sq.mtr	4,500.00	6,30,000.00
1(b)	Supply & fixing of PVC foam White Sheet - 18mm (There should be no streaks/lines on the board. Surface should be smooth clean and free from other hidden defects such as air bubbles, Blister, spots and Pits, both side protective film. Thickness: 18mm (Min:17.6mm & Max 18.2mm), Density (gm/cc): Std 0.55(Min: 0.53 & Max: 0.56mm), Productive film printing Ink or gum should not be transfer on surface during removal of the film. Test Parameters: Sulphated Ash content (Max: 35% Ash content) Stain Resistance: Shall not leave any stain on specimen after cleaning with water. solvent or detergent.	33	Sq.mtr	4,000.00	1,32,000.00
2	Automatic Sliding Door Driver / Mechanism/Operator				
2.1	Supply and installation of Automatic Sliding door operator ,4150mm operator suitable for glass thickness 8-22 mm and double Sliding of 2x1000mm panel size and compliant with European standards and produced according to the guidelines for power-operated windows, doors and gates, BGR 232, the UVV and the VDE regulations. TÜV design tested for 1 Million Cycle of operation in accordance with low voltage guidelines of IEC /EN 60335-2-103 and fulfils EN 16005 and DIN 18650-1/ AS5007:2007 / DIN 18650-2 standards /equivalent. The Profile Finish should be Silver Anodized EVI finish. Automatic doors Operators should be with very sturdy design , Self balancing Panel suspension system and with Anti-Jump fitting. The track profile should be separate from the main profile for enabling reduction in vibration insulation, With backplate for easy Installation. 16 bit intelligent Microprocessor-controller unit should be handled without any external handheld unit , Self-learning, with adjustable parameters for opening and closing speed with an incremental value of 10cm/sec , Max. 60 Sec. hold-open time and opening and closing force, reversing when obstruction is encountered, Class of protection IP 20. The Max. opening and close force by the operator should not exceed 150N and Max. Power consumption doesnot exceed 180W during operation mode. The operator is used with Electro Mechanical failsecure lock. The activators are via Motion and Presence sensors with 2x Microwave for activation and double rows of 24 spots failsafe Safety infra curtains without the need of Photocell. Program Switch with Knob/Digital program Switch, Max Panel Weight Carrying Capacity of 1 X 100 Kgs / 2 x 100 kgs. The system shall have constant power supply 230V+ 5%, 50Hz, AC.				
	Aluminium Profile :				
	The Operator is combined with sleek aluminium profile suitable to hold 8-22mm Toughened Glass with correct size of rubber gaskets without using any local sealants. The Profiles should provide for an interlocking arrangement to close out gaps between the sliding panel and fixed panel ,also having F Type Interlock seal on the closing edge of the 2 moving panels. These interlockings should be provided with seals. The profile size not exceeding Vertical Profile (30-45)mm and Horizontal Profile (45-75)mm and has Valid Environmental Product Declaration (EPD) Certification as per ISO 14025 and 15804 standards. The Operator assembly / production units must fulfill valid quality management systems of ISO 9001: 2015 and also have Environmental Management System of ISO 14001: 2015 Certifications for product approval				
	Automatic sliding door driver/Mechanism/operator confirming to Indian or international standards shall be supplied and fixed with the following features.				
	1. Glass Sliding doors between fixed side glasses as specified in "Glass" in BOQ item no.1(a) 2. The system should be equipped with floor guiding system, 3. Two sensors(combination of motion and presence sensors) with a range of operating, control options and safety devices 4. Product used should comply with ISO 9001:2015 certification and fulfils European standards and regulations. 5. TÜV type tested compliance with EU low voltage directives				

S. No.	Description	Qty	Unit	Rate	Amount
	9. Safety stop/reverse 10. Adjustment of all basic parameters via integrated push button/display programme switch/ Digital program Switch. 11. Sleek SS/Anodized aluminium Header frame and hinged operator cover 12. Two trolleys/roller sets per sliding leaf 13. Insulated and modular track rail, track profile separate from main profile 14. UVV accident prevention and VDE electrical engineering compliance				
	Mechanical Features				
	1.Max. Clear width : 2000 mm 2.Min clear width : 1000 mm 3. Max Clear Height : 2400 mm 4. Max Sliding leaf weight: 120 Kg / leaf				
	Performance				
	1. Opening speed: 10-30 cm/s (Incremental Setting) 2. Closing speed : 10-50 cm/s (Incremental Setting) 3. Max opening and closing force: 150 N 4. Hold open time: 0 to 60 seconds 5. Battery Pack - fitted in transom, for emergency opening or Emergency Closing 6. Independent adjustment of speed and force: Yes				
	Dimensions/Size:				
a)	2350 X 1030 Clear opening (HXW) (Location : T1- Domestic)- 12mm toughened glass	3	Jobs	1,63,400.00	4,90,200.00
b)	2450 X 2000 Clear opening (HXW) (Location : T4- International)-12mm toughened glass	4	Jobs	1,78,800.00	7,15,200.00
2.2	Differently Abled Restroom Door Solution with Automatic Sliding door operator in compliance with DIN 18650-1; EN 16005 standards for pedestrian doors & installed with overhead IR Safety sensor Comply with DIN 18650-1:2005-12; Protective Device 5.7.4 For the safety & Electromagnetic lock ensures privacy of the user. ; Door opening , locking and un locking via single unit Integral touch free panel with Wave Switches for hygiene and convenient of the user; The voice over comment alert the user for opening, closing, locking and unlocking of door as per door movement sequences. As per NBC Volume 1-2016; Part 3 – Annex B; CPWD – Handbook On Barrier Free and Accessibility, Chapter-8 standards the system to be opened from outside with KeySwitth during emergency need; Internal Pull cord will activate the alarm in case of emergency from inside. The Profile Finish should be Silver Anodized EVI finish. Automatic doors Operators should be with very sturdy design , Self balancing Panel suspension system and with Anti-Jump fitting. The track profile should be separate from the main profile for enabling reduction in vibration insulation, With backplate for easy Installation. 16 bit intelligent Microprocessor-controller unit should be handled, , Self-learning, with adjustable parameters for opening and closing speed with an incremental value of 10cm/sec , Max. 60 Sec. hold-open time and opening and closing force, reversing when obstruction is encountered, Class of protection IP 20. The Max. opening and close force by the opeartor should not exceed 150N and Max. Power consumption doesnot exceed 180W during opeartion mode.				
	Aluminium Profile :				
	The Opeartor is combined with sleek aluminium profile suitable to hold 8-22mm PVC Foam sheet with correct size of rubber gaskets / sealants. The Profiles should provide for an interlocking arrangement to close out gaps between the sliding panel and fixed panel ,also having F Type Interlock seal on the closing edge of the 2 moving panels. These interlockings should be provided with seals. The profile size not exceeding Vertical Profile (30-45)mm and Horizontal Profile (45-75)mm and has Valid Environmental Product Declartaion (EPD) Certification as per ISO 14025 and 15804 standards. The Operator assembly / production units must fulfill valid quality management systems of ISO 9001: 2015 and also have Environmental Management System of ISO 14001: 2015 Certifications for product				
	Automatic sliding door driver/Mechanism/operator confirming to Indian or international standards shall be supplied and fixed with the following features.				
	1. PVC Foam white sheet Sliding door as specified in " PVC foam White Sheet" in BOQ item no.1(b) 2. The system should equipped with floor guiding system, 3. Product used should comply with ISO 9001:2015 certification and fulfils European standards and regulations. 4.Two overhead IR Safety sensor to be used for safety. 5. TUV type tested compliance with EU low voltage directive. 6 Motor: Permeant magnet DC motor with a sealed integral gear box 7 Drive: Variable speed Geared Transmission through timer belt system 8. Automatic Lock for Handicap Restrooms: Electromagnetic Lock.				

S. No.	Description	Qty	Unit	Rate	Amount
	9. Safety stop/reverse 10. Adjustment of all basic parameters via integrated push button/display programme switch 11. Sleek SS/Anodized aluminium Header frame and hinged operator cover 12. Two trolleys/roller sets per sliding leaf 13. Insulated and modular track rail, track profile separate from main profile 14. UVV accident prevention and VDE electrical engineering compliance				
	Mechanical Features				
	1. Max. Clear width : 2000 mm 2. Min clear width : 1000 mm 3. Max Clear Height : 2400 mm 4. Max Sliding leaf weight: 120 Kg / leaf				
	Performance				
	1. Opening speed: 10-30 cm/s (Incremental Setting) 2. Closing speed : 10-50 cm/s (Incremental Setting) 3. Max opening and closing force: 150 N 4. Hold open time: 0 to 60seconds 5. Independent adjustment of speed and force: Yes				
	Dimensions/Size:				
	2280 X 1150 Clear opening (HXW) Location : T1 Domestic)-18mm pvc foam sheet	10	Jobs	2,13,400.00	21,34,000.00
3	Aluminium Profile : Supply and Fixing of sleek aluminium profile on existing Automatic Sliding Door Operator suitable to hold 8-22mm Toughened Glass /PVC Foam sheet with correct size of rubber gaskets / sealants. The Profiles should provide for an interlocking arrangement to close out gaps between the sliding panel and fixed panel ,also having F Type Interlock seal on the closing edge of the 2 moving panels. These interlockings should be provided with seals. The profile size not exceeding Vertical Profile (30-40)mm and Horizontal Profile (60-75)mm and has Valid Environmental Product Declaration (EPD) Certification as per ISO 14025 and 15804 standards. The Operator assembly / production units must fulfill valid quality management systems of ISO 9001: 2015 and also have Environmental Management System of ISO 14001: 2015 Certifications for product approval				
	Dimensions/Size:				
a)	2440 X 895 Clear opening (HXW) Double Leaf (Location : T1- Domestic & T4- International)- 12mm toughened glass -6 Nos 2500 X 1435 Clear opening (HXW) Double Leaf (Location : T1- Domestic)- 12mm toughened glass -1Nos 2440 X 1240 Clear opening (HXW) Double Leaf (Location : T1- Domestic)- 12mm toughened glass -1No. 2230 X 1050 Clear opening (HXW) Double Leaf (Location : T1- Domestic & T4- International)- 12mm toughened glass - 8Nos 2250 X 1150 Clear opening (HXW) Double Leaf (Location : T1- Domestic New Bus lounge)- 12mm toughened glass - 2Nos 2250 X 990 Clear opening (HXW) Double Leaf (Location : T1- Domestic New Bus lounge)- 12mm toughened glass - 1No. 2170 X 940 Clear opening (HXW) Double Leaf (Location : T1- Domestic New Bus lounge)- 12mm toughened glass - 1No.	20	Jobs	38,500.00	7,70,000.00
b)	2280 X 1150 Clear opening (HXW) Single leaf Location : T1 Domestic)-18mm pvc foam sheet- 1No.	1	Job	19,250.00	19,250.00
4	Dismantling and removal of existing automatic operator and sliding door panels etc. and shifting the same to AAI store	17	Jobs	3,000.00	51,000.00
5	Dismantling and removal of existing sliding door panels etc. and shifting the same to AAI store	21	Jobs	3,000.00	63,000.00
				Total Rs.	50,04,650.00

(Rupees Fifty Lakh Four Thousand Six Hundred and Fifty Only) Excluding GST


 (K. RAMESH BABU) 03/08/20
 Sr. Manager (E-E)