



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

AAM/ ENGG-ELECT/ AMED-II/ ARC/2024-25/ A-27

08.10.2024

//BY SPEED POST/ E-MAIL//

**WORK ORDER**

M/S BALAJI ENGINEERING,  
FLAT NO. 18, 3<sup>RD</sup> FLOOR,  
QUEEN'S CASTLE,  
LAKSHMI NAGAR,  
7<sup>TH</sup> STREET,  
NANGANALLUR,  
CHENNAI – 600 061.

**NAME OF WORK: ANNUAL RATE CONTRACT FOR PROVIDING WAY FINDING SIGNAGES AND ASSOCIATED ELECTRICAL WORKS INCLUDING PROVIDING DECORATIVE LIGHTING FOR TERMINAL BUILDING & CARPARK AREA OF T1, T2 & T4 IN VIEW OF FESTIVAL / OCCASIONS, SITC OF LED LUMINAIRES AND HAND DRYERS ETC. AND OTHER MISCELLANEOUS WORKS AT CHENNAI INTERNATIONAL AIRPORT.**

**REFERENCE: 1. TENDER ID: 2024 \_AAI\_203262\_1  
2. E-TENDER WAS OPENED ON 29.08.2024**

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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 **₹ 3,09,13,970.00 (Rupees Three Crore Nine Lakh Thirteen Thousand Nine Hundred and Seventy Only)** Excluding GST which is 20.65% below the Estimated Cost put to tender **₹ 3,89,60,125.00 (Rupees Three Crore Eighty Nine Lakh Sixty Thousand One Hundred and Twenty Five Only)** Excluding GST.
2. Deputy General Manager Engineering (Elec), AMED-II, Operational Offices, 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 Deputy General Manager Engineering (Elec), AMED-II, AAI, Chennai Airport on or before 17.10.2024 to sign and complete the contract agreement. The contract agreement shall be executed on the 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. Please deposit the amount of **₹ 30,91,397.00 (Rupees Thirty Lakh Ninety One Thousand Three Hundred and Ninety Seven 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.

फैक्स: 044 - 2256 0008 ईपीएबीएक्स: 2256 0551, चेन्नईहवाईअड्डे, चेन्नई – 600 016.  
Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai – 600 016.



CHENNAI AIRPORT  
ISO 9001:2015, ISO 14001:2016 & CHSAS 18001:2007 CERTIFIED AIRPORT

भारतीय विमानपत्तन प्राधिकरण

**AIRPORTS AUTHORITY OF INDIA**

4. You are requested to comply with the provision of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Act 1971 and minimum wages act and rules thereof Central and State Governments.
5. You are also directed to contact Senior Manager (E-E), AMED-II, Operational Offices, 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 01 (One) Year which shall be reckoned from 15.10.2024 to 14.10.2025.
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.

**Encl: Schedule of Quantities (19 Pages)**

**Yours faithfully,**

*(Signature)* 08.10.2024

**(A. DHANUSKODI)**

**Dy. General Manager (Engg. -Elect.)  
For and on behalf of the Chairman,  
Airports Authority of India,  
Chennai Airport.**



भारतीय विमानपत्तन प्राधिकरण  
AIRPORTS AUTHORITY OF INDIA  
चेन्नै ऐयरपोर्ट:: चेन्नै 600 016  
CHENNAI AIRPORT:: CHENNAI 600 016

**SCHEDULE OF WORK**

**Name of Work : Annual Rate contract for providing way finding signages and associated electrical works including providing decorative lighting for Terminal Building & carpark area of T1, T2 & T4 in view of Festival / occasions, SITC of LED luminaires and Hand Dryers etc. and other miscellaneous works at Chennai International Airport.**

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate        | Amount       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|--------------|
|        | <b>SH-I: Decorative Lighting Common for all Festivals / Occasions.</b>                                                                                                                                                                                                                                                                                                                                            |     |      |             |              |
| 1      | Hiring charges for providing illumination with standard coloured serial LED lamps 12,000 sets per day (containing minimum 40 Nos. of lamps per set) on the city side of terminal buildings T1, T2 & T4 including Admin Building, fly over, carpark area, Lawn & Trees for the following Occasions as required and as per the direction of Engineer-in-Charge.                                                     |     |      |             |              |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |              |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |              |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |              |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |              |
|        | 7. Other occasions - 4 Days                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |              |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                      | 19  | Days | 2,25,000.00 | 42,75,000.00 |
| 2      | Hiring charges for providing illumination with multicolour LED colour wash flood lights 500 nos per day with required cables & all accessories to illuminate the facia of terminals T1, T2, T4 & Admin Building to create bright & colourful ambience for the following Occasions as required and as per the direction of Engineer-in-Charge.                                                                     |     |      |             |              |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |              |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |              |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |              |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |              |
|        | 7. Other occasions - 4 Days                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |              |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                      | 19  | Days | 1,00,000.00 | 19,00,000.00 |
| 3      | Hiring charges for providing illumination with RGB pixel digital serial lighting LED lamps 1,500 sets per day (containing minimum 40 Nos. of lamps per set) on the city side of terminal building T1, T2 & T4, including Admin Building, fly over, carpark area, Lawn, admin building, V&Y type columns of buildings etc. for the following Occasions as required and as per the direction of Engineer-in-Charge. |     |      |             |              |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |              |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |              |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |              |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |              |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Qty | Unit | Rate      | Amount      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|-------------|
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | 7. Other occasions - 4 Days                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           |             |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19  | Days | 30,000.00 | 5,70,000.00 |
| 4      | Hiring charges for providing illumination with LED strip Lights 1500 mtrs of length per day on the city side of terminal building T1, T2 & T4, including Admin Building, fly over, carpark area, Lawn & Trees etc.,as required as directed by the Engineer-in-Charge.                                                                                                                                                                                                    |     |      |           |             |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |           |             |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | 7. Other occasions - 4 Days                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           |             |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19  | Days | 30,000.00 | 5,70,000.00 |
| 5      | Hiring charges for providing 2 Nos. Happy Independence day / Diwali / Christmas / New year / Pongal / Republic Day with matching background color board having min 4 feet LED letters with suitable size decorated aesthetic looking MS support at Entry/car park area of Domestic and International Terminals etc. complete as required and as per the direction of Engineer-in-charge.                                                                                 |     |      |           |             |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |           |             |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15  | Days | 15,000.00 | 2,25,000.00 |
| 6      | Hiring Charges for providing 3 Nos RGB pixel LED digital board of size 10 feet x 4 feet (one at T1 Terminal Departure, T2 Terminal Departure & T4 Terminal Departure) with a message of Happy Independence day / Diwali / Christmas / NewYear / Pongal / Republic day with matching background colour, with required decorated aesthetic looking MS support to withstand against strong winds etc. complete as required and as per the directions of Enginner-in-charge. |     |      |           |             |
|        | 1. Independence day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |           |             |
|        | 2. Diwali - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 3. Christmas - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | 4. New Year - 2 days                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
|        | 5. Pongal - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | 6. Republic Day - 3 days                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15  | Days | 45,000.00 | 6,75,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate      | Amount              |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|---------------------|
| 7      | Installation and Dismantling of decorative lighting materials at different locations of T1, T2 & T4 Departure, Arrival & Admin Building, carparking areas. Job involves Transportation, loading and unloading etc. of decorative lighting materials, laying, fixing and testing of decorative lighting for different occasions like Independence day, Diwali, New year, Pongal, Republic Day etc. at various locations of Chennai Airport including providing and disconnecting electrical connections etc., removing the decorative lighting materials and clearing the site after completion of work etc. complete as required.                                                                                 | 7   | Jobs | 15,000.00 | 1,05,000.00         |
| 8      | Installation & Dismantling of illuminated super flex boards with connections, frame fabrication works including providing 6/8 feet height stage with decoration etc. as required as per directions of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |           |                     |
|        | a) 8 ft x 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8   | Jobs | 8,500.00  | 68,000.00           |
|        | b) 10 ft x 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5   | Jobs | 15,000.00 | 75,000.00           |
| 9      | Hiring charges for following multi-colour digitally 3D printed logo with description, untearable, stretchable flex sheet including suitable metal bar with required 200 W LED flood lights for illumination etc. as required and as per the directions of Engineer-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |                     |
|        | a) 8 ft x 6 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4   | Days | 4,500.00  | 18,000.00           |
|        | b) 10 ft x 12 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4   | Days | 12,000.00 | 48,000.00           |
|        | <b>Total of SH-I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           | <b>85,29,000.00</b> |
|        | <b>SH II: R&amp;M of Internal &amp; External Electrical Installations</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |           |                     |
| 1      | Maintenance of High masts (height 20-30 metres) which includes lowering of highmast lantern carriage, checking, adjustment and replacement of all mechanical components like wire rope, trailing cable, drum, winch, power tool etc., if required (Materials will be given by the department). Checking and adjustment of electrical components like cable, luminaries etc., and replace if required and raising the lantern carriage to the top, testing and commissioning etc., as required.                                                                                                                                                                                                                    | 15  | Job  | 3,750.00  | 56,250.00           |
| 2      | Maintenance of Flag mast (height 30.5 metres) which includes lowering of 30'X20' national flag, checking, adjustment and replacement of all mechanical components like wire rope, trailing cable, drum, winch, power tool etc., if required (Materials will be given by the department). Checking and adjustment of electrical components like cable etc., and replace if required and raising the 30'X20' national flag, checking, adjustment and replacement of all mechanical components like wire rope, trailing cable, drum, winch, power to the top, testing and commissioning etc., as required.                                                                                                           | 1   | Job  | 10,000.00 | 10,000.00           |
| 3      | Dismantling the highmast of height above 20.0m and upto 30.5 m from the foundation to replace the damaged pulley / wire rope / trailing cable and reinstallation of the high mast after repair in the same foundation using crane and other appropriate equipments complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                          | 6   | Job  | 7,500.00  | 45,000.00           |
| 4      | Design and Construction of suitable shallow foundation with anchor plates, templates as per the OEM recommendation of high masts of height above 20.0m and upto 30.0 m i/c fixing of foundation bolts supplied for high mast with M20 grade concrete for above mentioned height high masts after testing the soil bearing capacity at site and installation of highmasts on the base using suitable heavy equipments, installation of required No. of LED light fittings / components with switch gear arrangement on the lantern carriage, installation of LED aviation obstruction lights, installation of control panel, interconnecting cables, wiring, testing and commissioning etc., complete as required. | 4   | Job  | 70,000.00 | 2,80,000.00         |
| 5      | Dismantling of unserviceable winch gear assembly from the high mast, complete overhauling of the winch gear assembly i/c replacement of parts such as shaft, bearing, oil seals and filling up with lubricating oil etc., and refixing the winch gear assembly i/c testing and commissioning etc., as required.                                                                                                                                                                                                                                                                                                                                                                                                   | 1   | Job  | 3,000.00  | 3,000.00            |
| 6      | Dismantling of drive motor from the high mast, cleaning, greasing and painting of the motors, reinstallation in the high mast i/c testing and commissioning etc., as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2   | Job  | 3,000.00  | 6,000.00            |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Qty | Unit | Rate      | Amount             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|--------------------|
| 7      | Dismantling of unserviceable / burntout motor of rating upto 1.5HP motor from the high mast. Complete dismantling of burntout motor stator winding and thorough cleaning of stator slots, Rewinding the stator with Class 'F' polyester coated super enameled copper wire and insulating materials i/c baking, varnishing, finishing and refixing the stator in the motor frame. Replacement of both end bearings and reinstallation in the high mast i/c testing and commissioning etc. as required. (Dismantled copper wire is to be retained by the contractor)                                                                                                                                                                                        | 2   | Job  | 2,000.00  | 4,000.00           |
| 8      | Supply and installation of ISMB 150 Channel for the damaged MS Barricade including welding, painting with one coat of zinc chromate and two coats of polyurethane paint of colour red and white etc. complete as required as per the instructions of Engineer-In-Charge. (Measurement shall be done on linear measurement)                                                                                                                                                                                                                                                                                                                                                                                                                                | 10  | Mtr  | 3,000.00  | 30,000.00          |
| 9      | Supply and Installation of rectangular MS Barricade made out of ISMB 150 channel around the high mast/LT Panels/Electrical Installations with 4 Nos of ISMB 150 Channels 1 metre above ground level and 0.3 metre below ground level for vertical support including excavation of soil, providing 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement concrete and disposal of the excavated soil etc. including welding, painting with one coat of zinc chromate and two coats of polyurethane paint of colour red and white etc. complete as required as per the instructions of Engineer-InCharge.(Measurement shall be done on linear measurement)                                                                  | 50  | Mtr  | 3,000.00  | 1,50,000.00        |
| 10     | Supply and Installation of rectangular MS Barricade made out of ISMB 150 channel around the high mast/LT Panels/Electrical Installations with 4 Nos of ISMB 150 Channels 1 metre above ground level and 0.3 metre below ground level for vertical support including excavation of concrete / bitumen surface of required dia with core cutting machine, providing 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement concrete and disposal of the excavated soil etc. including welding, painting with one coat of zinc chromate and two coats of polyurethane paint of colour red and white etc. complete as required as per the instructions of Engineer-In-Charge.(Measurement shall be done on linear measurement) | 50  | Mtr  | 3,000.00  | 1,50,000.00        |
| 11     | Dismantling, shifting ,re-installation, testing and commissioning of existing feeder pillar panel having 1 incomer of 200Amp rating & 6 Nos outgoings of 63A rating, making proper pedestal for placing the panel with 1:2:4(1cement : 2 Coarse : 4 graded stone aggregate nominal size) cement concrete etc., complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                      | 1   | Job  | 1,500.00  | 1,500.00           |
|        | <b>Total of SH-II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           | <b>7,35,750.00</b> |
|        | <b>SH-III: Supply of following electrical spares as on when required.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |                    |
| 1      | Supply of Double drum winch suitable for 25 - 30 m highmast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3   | Each | 13,000.00 | 39,000.00          |
| 2      | Supply of Double drum winch suitable for 100 ft flagmast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | Each | 13,000.00 | 13,000.00          |
| 3      | Supply of Stainless steel wire rope 6mm dia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 250 | Mtr  | 125.00    | 31,250.00          |
| 4      | Supply of Wire clamps (U type)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 250 | Each | 35.00     | 8,750.00           |
| 5      | Supply of Lantern Carriage resting arm (Set of 3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2   | Each | 1,200.00  | 2,400.00           |
| 6      | Supply of Headframe pulley                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4   | Each | 4,500.00  | 18,000.00          |
| 7      | Supply of Headframe pulley for flag mast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1   | Each | 12,000.00 | 12,000.00          |
| 8      | Supply of Eye Bolt with Clamps                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 10  | Each | 1,100.00  | 11,000.00          |
| 9      | Supply of Drive chain with connecting pins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4   | Each | 5,500.00  | 22,000.00          |
| 10     | Supply of Ratchet wheel set (Torque limiter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4   | Each | 600.00    | 2,400.00           |
| 11     | Supply of Gear oil SAE 140 (5 Litre Can) (IOCL/ BPCL/ HPCL/ CASTROL make)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4   | Each | 300.00    | 1,200.00           |
| 12     | Supply of 16A, 5pin splash proof Insulated plug socket set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4   | Each | 180.00    | 720.00             |
| 13     | Supply of 5C 4 mm <sup>2</sup> copper conductor, EPR insulated, PC tape, PCP outer sheathed Elastometric Rubber cable of 1.1KV grade for use in highmasts as trailing cable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 250 | Mtr  | 380.00    | 95,000.00          |
| 14     | Supply of 5C 1.5 mm <sup>2</sup> copper conductor, EPR insulated, PC tape, PCP outer sheathed Elastometric Rubber cable of 1.1KV grade for use in highmasts as trailing cable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 100 | Mtr  | 225.00    | 22,500.00          |
| 15     | Supply of 1.1kW(1.5HP), 415V, 50Hz, 989 RPM ( 6 pole motor), S1 duty, IP55 with Class F Insulation Energy Efficient, TEFC, Induction motor conforming to IS 12615 for highmast/ Flag mast application with all accessories.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5   | Each | 10,000.00 | 50,000.00          |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate      | Amount              |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|---------------------|
| 16     | Supply of 1.5kW(2HP), 415V, 50Hz, 989 RPM ( 6 pole motor), S1 duty, IP55 with Class F Insulation Energy Efficient, TEFC, Induction motor conforming to IS 12615 for highmast drive application with all accessories.                                                                                                                                                                                                                              | 5   | Each | 20,000.00 | 1,00,000.00         |
| 17     | Supply of LED luminarie Philips make BY400V LED145S CW AK PSD S2 FG LILO WH / BY615P LED150S 57 WB PSD GR or equivalent for highbay lighting at Departure                                                                                                                                                                                                                                                                                         | 10  | Each | 14,000.00 | 1,40,000.00         |
| 18     | Supply of LED luminarie Philips make BVP410 LED 170 CW HE AK55 FG / BVP283 LED181 CW FG SY5WB 150W V1 or Equivalent for Indirect lighting at Departure                                                                                                                                                                                                                                                                                            | 5   | Each | 9,000.00  | 45,000.00           |
| 19     | Supply of LED flood light luminarie Philips make BVP410 LED 260 CW HE AK55 FG/ BVP283 LED240 CW FG SY5NB 200W V1 or Equivalent for city side high mast flood lights                                                                                                                                                                                                                                                                               | 6   | Each | 11,000.00 | 66,000.00           |
| 20     | Supply of LED luminarie Philips make BRP 409 LED 072 CW HE MR FG S1 PSU GR / BRP501 LED078 CW R5C PSU S1 V1 or Equivalent for street lighting at city side.                                                                                                                                                                                                                                                                                       | 5   | Each | 5,000.00  | 25,000.00           |
| 21     | Supply of LED luminarie Philips make BRP 409 LED 036 MR FG S1 PSU GR / BRP331 LED36 CW R5N PC PSU S1 V1 or Equivalent for street lighting at city side.                                                                                                                                                                                                                                                                                           | 5   | Each | 2,700.00  | 13,500.00           |
| 22     | Supply of LED flood light luminarie Surya Roshini make SLE FL 250W IP66 LMS HL or Equivalent for flood lighting at Departure level city side                                                                                                                                                                                                                                                                                                      | 5   | Each | 13,500.00 | 67,500.00           |
| 23     | Supply of LED Driver Philips make model: 929000702202/Xitanium 150W 0.35-0.7A Prog GL sXt or Equivalent. for Philips light fixture BY400V LED145S CW AK PSD S2 FG LILO WH / BY615P LED150S 57 WB PSD GR .                                                                                                                                                                                                                                         | 250 | Each | 19,000.00 | 47,50,000.00        |
| 24     | Supply of LED Driver Philips make X150C070V210FNI1A0/ Xitanium 150W 0.7A 240V or Equivalent suitable for philips make light fixtures BVP410 LED 170 CW HE AK55 FG/ BVP283 LED181 CW FG SY5WB 150W V1/BVP410 LED 260 CW HE AK55 FG /BVP283 LED240 CW FG SY5NB 200W V1.                                                                                                                                                                             | 145 | Each | 1,900.00  | 2,75,500.00         |
| 25     | Supply of LED Driver Philips make XD75C070V107FNY1B0/ Xitanium 75W 0.7A 240V or Equivalent suitable for Philips make light fixtures of model BRP 409 LED 072 CW HE MR FG S1 PSU GR /BRP501 LED078 CW R5C PSU S1 V1.                                                                                                                                                                                                                               | 40  | Each | 1,300.00  | 52,000.00           |
| 26     | Supply of LED Driver Philips make 4415 370 05530 /Xitanium 50W 0.7A 66V P1 or Equivalent suitable for Philips make light fixtures of model BRP 409 LED 036 MR FG S1 PSU GR.                                                                                                                                                                                                                                                                       | 30  | Each | 850.00    | 25,500.00           |
| 27     | Supply of LED Driver Surya Roshini make BI-MB 2520/(54-105W)/(1.2-1.75A) or Equivalent for Surya Roshini flood light fixture SLE FL 250W IP66 LMS HL .                                                                                                                                                                                                                                                                                            | 120 | Each | 1,900.00  | 2,28,000.00         |
| 28     | Supply of LED board suitable for Surya Roshini make flood light luminarie, model SLE FL 250W IP66 LMS HL or Equivalent for flood lighting at Departure city side .                                                                                                                                                                                                                                                                                | 5   | Each | 4,000.00  | 20,000.00           |
|        | <b>Total of SH-III</b>                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |           | <b>61,37,220.00</b> |
|        | <b>SH-IV: Signages and associated electrical works as on when required</b>                                                                                                                                                                                                                                                                                                                                                                        |     |      |           |                     |
| 1      | <b>Facility Announcers - Passenger Amenities</b>                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |                     |
|        | <b>Refer design drawing 1.7dS, 1.7dG</b>                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |           |                     |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge. All exterior signs should be manufactured considering harsh outdoor conditions, weatherproofing techniques and materials shall be used.                                                                              |     |      |           |                     |
|        | <b>Sign Box 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |                     |
|        | Providing and fixing sign box with lasercut Bent Fabrication in 5mm thick clear acrylic with pantone yellowC Vinyl pasted over acrylic with white diffuser film on inside face. Blockout vinyl for text Pantone Black 6C. Complete box excluding bottom side is lited with internal LED lighting. Acrylic fabrication shall have transparent structural supports for obstruction free lighting. Box to be directly mounted on the sign structure. |     |      |           |                     |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |                     |
|        | Providing and fixing sign face with 3 mm thick Aluminium sheet fabrication with black colour RAL 9011, Aluminium sheet fixed to sign structure with a provision of niche for telephone as specified in the drawings.                                                                                                                                                                                                                              |     |      |           |                     |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |           |                     |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate      | Amount      |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|-------------|
|        | Providing and fixing MS square 50 x 50 x 2 mm fabrication, hotdipped galvanised and fixed to the ground. Frame to receive the sign face with 3 mm thick Aluminium sheet fabrication with specific grey colour, Aluminium sheet fixed to sign structure as specified in the drawings. The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together. Secret fixing methods should be used to fix parts together.                                                                                                         |     |      |           |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |           |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                                                                                                                                                                                             |     |      |           |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign.                                                                                                                                                                                   |     |      |           |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws, rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                       | 5   | Each | 40,000.00 | 2,00,000.00 |
| 2      | <b>Ceiling Hung Directional Sign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           |             |
|        | <b>Refer design drawing 2.1aS, 2.1aG</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |           |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                 |     |      |           |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |           |             |
|        | Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                       |     |      |           |             |
|        | <b>Sign internal Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | Providing and fixing Framework of Aluminium 25mm x 25mm x 1.3 hollow square sections. Shall be directly fixed to the sign frame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |             |
|        | <b>Suspender</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |             |
|        | Providing and fixing Stainless steel 35 x 35mm x 2 Hollow sections (assuming typical length of 1 metre) mounted on slabs/beams/walls. All hardware used for fixing of sign shall be Stainless steel.                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |           |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of messages in sign board to the satisfactory illumination of sign boards.</b> |     |      |           |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |           |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws, rivets, bolts, washers, nuts, etc. complete as per drawing.>>                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
| 2.1    | <b>Message 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10  | Each | 30,000.00 | 3,00,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Qty | Unit | Rate        | Amount      |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
| 2.2    | <b>Message 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10  | Each | 55,000.00   | 5,50,000.00 |
| 2.3    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10  | Each | 70,000.00   | 7,00,000.00 |
| 2.4    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5   | Each | 95,000.00   | 4,75,000.00 |
| 3      | <b>Floor mounted directional sign - With out FIDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | <b>Refer design drawing 2.1b-1S, 2.1b-1G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | All structural members in SS square post 100 x 100 x 3mm and horizontal cross tie member square sections 75x75x2.5mm, brush finished. base plate embedded below the floor finish and provided with a floor trim ring. All hardware used for fixing of sign shall be Stainless steel. Post including SS base Plate and Gussets in 6mm thick SS Plate as per drawing with holes to fix it on holding down bolts anchored in concrete slab. The post shall closed with a 3 mm thick SS plate as specified and approved by the Engineer-In-charge. The Post shall be always be a single continuous element without any joints. Cost to include all activities and temporary props used for a perfect vertical in plumb installation, etc required for fixing the sign in an internal location. The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together. |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of messages in sign board to the satisfactory illumination of sign boards.</b>                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing. >>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
| 3.1    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3   | Each | 1,40,000.00 | 4,20,000.00 |
| 3.2    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3   | Each | 1,60,000.00 | 4,80,000.00 |
| 3.3    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3   | Each | 1,80,000.00 | 5,40,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Qty | Unit | Rate        | Amount      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
| 4      | <b>Floor mounted directional sign - With Maps</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | <b>Refer design drawing 2.1b-2S, 2.1b-2G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |             |
|        | All structural members in SS square post 100 x 100 x 3 mm and horizontal cross tie member square sections 75x75x 2.5mm, brush finished. base plate embedded below the floor finish and provided with a floor trim ring. All hardware used for fixing of sign shall be Stainless steel. Post including SS base Plate and Gussets in 6mm thick SS Plate as per drawing with holes to fix it on holding down bolts anchored in concrete slab. The post shall closed with a 3 mm thick SS plate as specified and approved by the Engineer-In-charge. The Post shall be always be a single continuous element without any joints. Cost to include all activities and temporary props used for a perfect vertical in plumb installation, etc required for fixing the sign in an internal location. The actual structural design of the sign for its stability shall be responsibility of the EPC contractor. Secret fixing methods should be used to fix parts together. |     |      |             |             |
|        | <b>Information Panel</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |             |             |
|        | Providing and fixing 50 mm wide Aluminium extrusion openable secure frames with printed graphic behind 4mm clear Polycarbonate. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots and adhering to the LUX levels mentioned in the performance specification. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable laid by Airport contractor at the site. <b>The number of LED strips / modules and electronic controllers will vary as per number of messages in sign board and to the satisfaction of the Engineer-in-Charge.</b>                                                                                                                                                                                                                                                            |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be responsibility of the EPC contractor. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
| 4.1    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3   | Each | 1,10,000.00 | 3,30,000.00 |
| 4.2    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3   | Each | 1,20,000.00 | 3,60,000.00 |
| 4.3    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3   | Each | 1,50,000.00 | 4,50,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qty | Unit | Rate        | Amount      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
| 5      | <b>Floor mounted directional sign - Single</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Refer design drawing 2.1b-3S, 2.1b-3G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | All structural members in SS square post 100 x 100 x 3 mm, brush finished. base plate embedded below the floor finish and provided with a floor trim ring. All hardware used for fixing of sign shall be Stainless steel. Post including SS base Plate and Gussets in 6mm thick SS Plate as per drawing with holes to fix it on holding down bolts anchored in concrete slab. The post shall closed with a 3 mm thick SS plate as specified and approved by the Engineer-In-charge. The Post shall be always be a single continuous element without any joints. Cost to include all activities and temporary props used for a perfect vertical in plumb installation, etc required for fixing the sign in an internal location.<br>The actual structural design of the sign for its stability shall be ensued. Secret fixing methods should be used to fix parts together. |     |      |             |             |
|        | <b>Tension Rod</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |             |
|        | Providing and fixing tension rod in brush finished S.S. with the turn buckle system. Tension rod shall be fixed to the sign structure and the sign frame with S.S. gusset plates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of messages in sign board to the satisfactory illumination of sign boards.</b>                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
| 5.1    | <b>Message 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5   | Each | 40,000.00   | 2,00,000.00 |
| 5.2    | <b>Message 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5   | Each | 70,000.00   | 3,50,000.00 |
| 5.3    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3   | Each | 95,000.00   | 2,85,000.00 |
| 5.4    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3   | Each | 1,10,000.00 | 3,30,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Qty | Unit | Rate        | Amount      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
| 5.5    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3   | Each | 1,30,000.00 | 3,90,000.00 |
| 6      | <b>Floor mounted directional sign - Double</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Refer design drawing 2.1b-4S, 2.1b-4G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | All structural members in SS square post 100 x 100 x 3 mm, brush finished. base plate embedded below the floor finish and provided with a floor trim ring. All hardware used for fixing of sign shall be Stainless steel. Post including SS base Plate and Gussets in 6mm thick SS Plate as per drawing with holes to fix it on holding down bolts anchored in concrete slab. The post shall closed with a 3 mm thick SS plate as specified and approved by the Engineer-In-charge. The Post shall be always be a single continuous element without any joints. Cost to include all activities and temporary props used for a perfect vertical in plumb installation, etc required for fixing the sign in an internal location.<br>The actual structural design of the sign for its stability shall be ensued. Secret fixing methods should be used to fix parts together. |     |      |             |             |
|        | <b>Tension Rod</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |             |
|        | Providing and fixing tension rod in brush finished S.S. with the turn buckle system. Tension rod shall be fixed to the sign structure and the sign frame with S.S. gusset plates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of messages in sign board to the satisfactory illumination of sign boards.</b>                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws, rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |
| 6.1    | <b>Message 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5   | Each | 40,000.00   | 2,00,000.00 |
| 6.2    | <b>Message 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 5   | Each | 70,000.00   | 3,50,000.00 |
| 6.3    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3   | Each | 1,00,000.00 | 3,00,000.00 |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qty | Unit | Rate        | Amount      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
| 6.4    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 1,30,000.00 | 3,90,000.00 |
| 6.5    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 1,40,000.00 | 4,20,000.00 |
| 7      | <b>Wall mounted Directional Sign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Refer design drawing 2.1c-S, 2.1c-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                  |     |      |             |             |
|        | <b>Sign internal Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Providing and fixing Framework of Aluminium 25mmx 25mm hollow square sections. Shall be directly fixed to the sign frame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of messages in sign board to the satisfactory illumination of Sign Board.</b> |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be responsibility of the EPC contractor. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
| 7.1    | <b>Message 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5   | Each | 30,000.00   | 1,50,000.00 |
| 7.2    | <b>Message 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5   | Each | 60,000.00   | 3,00,000.00 |
| 7.3    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 80,000.00   | 2,40,000.00 |
| 7.4    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 90,000.00   | 2,70,000.00 |
| 7.5    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 1,00,000.00 | 3,00,000.00 |
| 8      | <b>Wall Projected Directional Sign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |             |             |
|        | <b>Refer design drawing 2.1d-S, 2.1d-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                |     |      |             |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Qty | Unit | Rate        | Amount      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                  |     |      |             |             |
|        | <b>Sign internal Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Providing and fixing Framewrok of Aluminium 25mmx 25mm x 3 hollow square sections. Shall be directly fixed to the sign frame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | <b>Tension Rod</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | Providing and fixing tension rod in brush finished S.S. with the turn buckle syatem. Tension rod shall be fixed to the wall structure and the sign frame with S.S. gusset plates.                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | All internal illumination shall be using Power LED Light <b>strips/modules</b> from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site. <b>The number of LED strips / modules and electronic controllers shall vary as per number of mesages in sign board to the satisfactory illumination of Sign boards.</b> |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
| 8.1    | <b>Message 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5   | Each | 30,000.00   | 1,50,000.00 |
| 8.2    | <b>Message 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5   | Each | 50,000.00   | 2,50,000.00 |
| 8.3    | <b>Message 3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 80,000.00   | 2,40,000.00 |
| 8.4    | <b>Message 4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 90,000.00   | 2,70,000.00 |
| 8.5    | <b>Message 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3   | Each | 1,00,000.00 | 3,00,000.00 |
| 9      | <b>Wall Mounted Facility Announcer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |             |             |
|        | <b>Refer design drawing 2.2a-S, 2.2a-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.                                                                                                |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                  |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                                                                                                              |     |      |             |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate        | Amount      |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                      | 5   | Each | 1,50,000.00 | 7,50,000.00 |
| 10     | <b>Wall Projected Facility Announcer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Refer design drawing 2.2b-S, 2.2b-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge. |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                   |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                               |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                      | 6   | Each | 25,000.00   | 1,50,000.00 |
| 11     | <b>Bording Gates - Totem Without Information panel/ FIDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Refer design drawing 2.2g1-S, 2.2g1G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Sign Box</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | Providing and fixing sign box with lasercut Bent Fabrication in 5mm thick clear acrylic with pantone yellowC Vinyl pasted on it. Complete box excluding bottom side is lited with internal LED lighting. Acrylic fabrication shall have transparent structural supports for obstruction free lighting. Box to be directly mounted on the sign structure. Text in opaque black vinyl to match RAL 9011                                                                                             |     |      |             |             |
|        | <b>Sign Face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Providing and fixing sign face panels 3 mm thick Aluminium sheet fabrication, Aluminium sheet fixed to sign structure with black colour RAL 9011 with a provision of through and through laser cutting for information panel and text. Backlit Text with 8mm thick milky white acrylic flushed with the sign face.                                                                                                                                                                                |     |      |             |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | Providing and fixing MS square post 50x50x2mm fabrication, hotdipped galvanised and fixed to the ground. Frame to receive the sign faces.<br>The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Crash Guard</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |             |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Qty | Unit | Rate        | Amount      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
|        | Providing and fixing Protection for sign from trollies ,wheeled baggage in 50 mm outer dia stainless steel pipe brush finished fixed with 8 mm thick SS plate bracket.                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots.Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                   |     |      |             |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation; PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign >>                                                                                    |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.>>                                                                                                                                                                                                                                                                                                                       | 6   | Each | 1,50,000.00 | 9,00,000.00 |
| 12     | <b>Boarding Gates - Wall Projected</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |      |             |             |
|        | <b>Refer design drawing 2.2g2-S, 2.2g2-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.>>                                                                                                                                                                                                                                                                       |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective over laminate. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge. |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to recieve the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side.The panel should be made easily openable for maintainance.                                                                                                                                                       |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                  |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                         | 6   | Each | 60,000.00   | 3,60,000.00 |
| 13     | <b>Boarding Gates - Wall Mounted (Modified) without Information panel/ FIDS</b>                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Refer design drawing 2.2g3-S, 2.2g3-G (modified)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                         |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |             |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Qty | Unit | Rate      | Amount      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|-------------|
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics with a provision of through and through cut out for information panel.and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |      |           |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system.The panel should be made easily openable for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |           |             |
|        | <b>Sign internal Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | Providing and fixing Framewrok of Aluminium 25mmx 25mm x 1.3 hollow square sections. Shall be directly fixed to the sign frame.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |           |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6   | Each | 60,000.00 | 3,60,000.00 |
| 14     | <b>Airport zonal route Map - Interiors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |           |             |
|        | <b>Refer design drawing 2.3a-S, 2.3a-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |      |           |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |             |
|        | <b>Sign Face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
|        | Providing and fixing sign face panel in 5mm thk white translucent 040 acrylic. Graphics - Plotter cut blockout vinyl pantone black C, translucent printed vinyl for text / Map and pasted over white translucent acrylic.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |           |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | Providing and fixing sign frame of 50mm wide powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The panel should be made easily openable from back for maintainance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |
|        | <b>Sign Structure</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |      |           |             |
|        | MS square post 75x75 and horizontal square sections 50 x 50mm, hotdipped galvanised and powder coated to match RAL 9006. Post including welded MS base Plate and Gussets in 6mm thick MS Plate as per drawing with holes to fix it on holding down bolts anchored in concrete footing. The post shall closed with a 3 mm thick MS plate and parts kept unpainted to weld the sign structure as per the drawing to ensure a rigid connection at site. The entire post assembly shall be hotdipped galvanised and P.U. Painted to match RAL 9006 as specified and approved by the Engineer-In-charge. The Post shall be always be a single continuous element without any joints.Cost to include all activities and temporary props used for a perfect vertical in plumb installation, shim Plates for adjustment of levels and filling the gap with concrete slury etc required for fixing the sign in an external location. The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together. 225x225mm size, 5 mm thick cover plate mounted in case the flooring is present. |     |      |           |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |             |
|        | <b>Foundation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Qty | Unit | Rate        | Amount      |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------|-------------|
|        | Providing and laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, providing and fixing in position electrical connection wherever applicable and finished as per drawing. The item cost includes cutting and opening the floor finish at location, and making good the location to the match the original finish after fixing and installation of sign                                                                                    |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                      | 5   | Each | 1,25,000.00 | 6,25,000.00 |
| 15     | <b>Lift Directory</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |      |             |             |
|        | <b>Refer design drawing 2.3b-S, 2.3b-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone yellow C or Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge. |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system. The panel should be made easily openable for maintainance.                                                                                                                                                                                                       |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                               |     |      |             |             |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                                          |     |      |             |             |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                      | 2   | each | 16,000.00   | 32,000.00   |
| 16     | <b>Washroom / Drinking Water / Baby care</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |             |             |
|        | <b>Refer design drawing 2.4a-S, 2.4a-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |             |             |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.>>                                                                                                                                                                                                                                                                    |     |      |             |             |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |             |             |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge.             |     |      |             |             |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |             |             |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system in one side and 3M bothway tape from the other side. The panel should be made easily openable for maintainance.                                                                                                                                                   |     |      |             |             |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |             |             |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Qty | Unit | Rate      | Amount    |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-----------|-----------|
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                   |     |      |           |           |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                              |     |      |           |           |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                          |     |      |           |           |
| 16.1   | <b>Wall Projected (Double Side - Sign face in acrylic)</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | 2   | each | 19,500.00 | 39,000.00 |
| 16.2   | <b>Wall mounted (Single side content - Sign Face: acrylic, and Back: 3mm ACP)</b>                                                                                                                                                                                                                                                                                                                                                                                                     | 2   | each | 22,000.00 | 44,000.00 |
| 17     | <b>Lift No. Sign</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |      |           |           |
|        | <b>Refer design drawing 2.4c-S, 2.4c-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |      |           |           |
|        | Providing and fixing illuminated signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                          |     |      |           |           |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |           |
|        | Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Blockout vinyl. Entire panel covered with a protective overlamine. The films to wrap around the edge of the acrylic to a distance of 25mm on the back side. The Plotter cut blockout vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Pantone Cyan 311C as per graphics and of specified make duly approved by the Engineer-in-Charge. |     |      |           |           |
|        | <b>Sign Frame</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |      |           |           |
|        | Providing and fixing sign frame 50mm wide powder coated, colour RAL 9006 special aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with the 3M brand dual lock system. The panel should be made easily openable for maintainance.                                                                                                                                                                                           |     |      |           |           |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |      |           |           |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent ( Edge lighting - 6500K, 24 v, with optimal homogenous backlighting & light Throw of minimum 4 ft) with electronic controllers, having even spread and overlaps to avoid banding and dark spots .Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                   |     |      |           |           |
|        | The actual structural design of the sign for its stability shall be ensured. Secret fixing methods should be used to fix parts together.                                                                                                                                                                                                                                                                                                                                              |     |      |           |           |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                          |     |      |           |           |
| 17.1   | <b>Wall Projected (Double Side - Sign face in acrylic)</b>                                                                                                                                                                                                                                                                                                                                                                                                                            | 2   | each | 16,000.00 | 32,000.00 |
| 17.2   | <b>Wall mounted (Single side content - Sign Face: acrylic, and Back: 3mm ACP)</b>                                                                                                                                                                                                                                                                                                                                                                                                     | 2   | each | 13,000.00 | 26,000.00 |
| 18     | <b>Emergency Direction Signs - Illuminated</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |      |           |           |
|        | <b>Refer design drawing 2.6a-G</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |           |           |
|        | Providing and fixing illuminated emergency signs including all operations from fabrication to installation all complete as per drawings, technical specifications, signage schedule and to the satisfaction of the Engineer-in-Charge.                                                                                                                                                                                                                                                |     |      |           |           |
|        | <b>Sign face</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     |      |           |           |
|        | Sign face shall be made in 6mm thick Laminated acrylic (as specified) having graphics pasted on the inside with translucent white vinyl pasted over plotter cut Translucent vinyl. The Plotter cut translucent vinyl to match the specified colour (colour Pantone XXXX) and of specified make duly approved by the Engineer-in-Charge.                                                                                                                                               |     |      |           |           |

| Sl.No. | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Qty  | Unit | Rate      | Amount       |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-----------|--------------|
|        | <b>Sign Box</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |           |              |
|        | The sign box 80 mm deep shall be made out of 1.6 mm thick CRCA MS sheet fabricated and provided with same material support channel and ties welded to sign channel. All fabrication shall be done using CNC machines. Sign box shall be provided with openings with Mesh from inside for ventilation. Complete sign box including channel supports are to be powder coated to match RAL9016. Sign box flange receiving the sign face shall be provided with slots to receive the rivets to fix the sign frame.                                                                                                                                                                                                                                                                                                                         |      |      |           |              |
|        | <b>Lighting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |      |           |              |
|        | All internal illumination shall be using Power LED Lights from Osram or equivalent with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Cost to include all internal connections and Wiring, terminating and connecting the incoming cable at the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |      |           |              |
|        | <b>Accessories:</b> Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws, rivets, bolts, washers, nuts, etc. complete as per drawing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |      |           |              |
| 18.1   | <b>Exit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2    | each | 17,000.00 | 34,000.00    |
| 18.2   | <b>Emergency Exit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2    | each | 19,000.00 | 38,000.00    |
| 19     | Providing and Fixing of computerised 3M vinyl cut text of approved matter in three language with directional sign etc., in double colour on existing 5mm thick Polycarbonate sheet of different sizes on existing signages including dismantling of existing polycarbonate sheet board from the existing signage board and remove the existing signage vinyl sticker over the polycarbonate sheet including cleaning of the complete polycarbonate surface without causing any damage and scratch over the surface and refixing the polycarbonate sheet on the existing sign board etc., as per direction of Engineer-in-Charge complete as required.<br>Note: In case of any breakage of Polycarbonate sheets during dismantling, shifting, handling & refixing etc, the complete sheet to be replaced by contractor at free of cost. | 2000 | Sqft | 600.00    | 12,00,000.00 |
| 20     | Providing and fixing of new Airline logo sticker at city side departure level airline listing announcer board as per direction of Engg-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 300  | sqft | 225.00    | 67,500.00    |
| 21     | Providing and fixing of computerized poly vinyl sticker with blue background and white letters have self adhesive type complete as required and as per direction of Engg-in-charge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 500  | sqft | 225.00    | 1,12,500.00  |
| 22     | Supply, assembly and laying of under floor trunking made out of 1.6mm(min) thick GI sheet complete with jointing sleeve, horizontal bends, vertical bends, level adjustment components and closer, vertical elbow, covers, access outlet. etc. complete with all other accessories under floor installation, making good the same, placing in position and cleaning from inside complete etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |           |              |
|        | a) 150 mm wide x 38 mm deep raceway (1 compartment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 250  | Mtr  | 650.00    | 1,62,500.00  |
|        | b) 50 mm wide x 38 mm deep raceway (1 compartment)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 50   | Mtr  | 400.00    | 20,000.00    |
| 23     | Providing and fixing 300 x 300 x 50-70 mm deep GI (hot dip galvanized) cross over box made out of 1.6 mm thick sheet steel cross over box in under floor installation in complete as required as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 10   | Nos  | 650.00    | 6,500.00     |
| 24     | Providing and fixing 225 x 225 x 50-70 mm deep GI (hot dip galvanized) cross over box made out of 1.6 mm thick sheet steel junction box in under floor installation in complete as required as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 15   | Nos  | 650.00    | 9,750.00     |
| 25     | Providing and fixing 150 x 150 x 50-70 mm deep GI (hot dip galvanized) cross over box made out of 1.6 mm thick sheet steel junction box under floor installation in complete as required as per specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10   | Nos  | 450.00    | 4,500.00     |
| 26     | Supply and fixing of pop up type metal flush mounting box (floor mounted) on floor including Switch & sockets, connection & accessories etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |      |           |              |
|        | a) 3 Module ( 6 amps ) (Similar to Legrand Cat No. 0540 10 or Equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10   | Nos  | 650.00    | 6,500.00     |
|        | b) 6 Module ( 6/16 amps ) (Similar to Legrand Cat No. 0540 12 or Equivalent)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6    | Nos  | 6,500.00  | 39,000.00    |
| 27     | Supply and fixing of pop up type metal flush mounting box (Furniture Mounted) including Switch & sockets, connection & accessories etc. as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |      |           |              |

| Sl.No. | Description of Item                                                         | Qty | Unit | Rate   | Amount                |
|--------|-----------------------------------------------------------------------------|-----|------|--------|-----------------------|
|        | a) 4 Module ( 6/16 amps) (Similar to Legrand Cat No. 6540 14 or Equivalent) | 5   | Nos  | 650.00 | 3,250.00              |
|        | <b>Total of SH-IV</b>                                                       |     |      |        | <b>1,55,12,000.00</b> |
|        | <b>Total of SH-I, II, III &amp; IV ₹</b>                                    |     |      |        | <b>3,09,13,970.00</b> |

**Rupees Three Crore Nine Lakh Thirteen Thousand Nine Hundred and Seventy Only) Excluding GST**

*08.10.2024*  
**(A. DHANUSKODI)**  
 DGM (E-E),  
 AMED-II, AAI,  
 Chennai Airport.

**Signature Not Verified**

Digitally signed by Dujia Nayak Jatothu  
 Date: 2024.12.03 11:04:17 IST  
 Location: eProcurement System for  
 Central PSUs