



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA



कार्य आदेश/AWARD LETTER

संदर्भ संख्या : भाविप्रा/पुणे/अभि(वि)/साइनेज/का.आ.-02/2022-23/65

दिनांक: 03.03.2023

Ref. No.: AAI/Pune/Engg.(Elect.)/Signage/WO-2/2022-23/65

Dated: 03.03.2023

सेवा में

To

मैसर्स सैटिन नियो डाइमेंशन्स प्राइवेट लिमिटेड,
प्लॉट नंबर 108, भूतल,
सेक्टर 44, गुरुग्राम,
हरियाणा- 122003.

M/s. Satin NEO Dimensions Pvt. Ltd.
Plot No. 108, Ground Floor,
Sector 44, Gurugram,
Haryana- 122003.

कार्य का नाम : नए एकीकृत यात्री टर्मिनल भवन का निर्माण, पुराने टर्मिनल भवन का पुनर्निर्माण,
सिविल एन्क्लेवपुणे हवाई अड्डे पर मौजूदा विस्तारित टर्मिनल भवन का संशोधन।
उशी: पुणे हवाई अड्डे के लिए साइनेज का प्रावधान

Name of Work: Construction of New Integrated Passenger Terminal Building, Reconstruction of Old Terminal Building, Modification of Existing expanded Terminal Building at Civil Enclave Pune Airport, Pune.
SH: Provision of Internal & External Signages.

संदर्भ: ई-निविदा आयडी नं. 2022_AAI_139372_1 आपकी वित्तीय बोली दिनांक 09.02.2023 खोली गई और रिवर्स ऑक्शन 16.02.2023 को किया गया।

Ref: E-tender ID No: 2022_AAI_139372_1, your Financial Bid Opened on dated: 09.02.2023 & reverse auction on 16.02.2023

महोदय/ Dear Sir,

- ऊपर उल्लेखित कार्य हेतु आपका निविदा अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए कुल मूल्यों पर आपकी निविदा राशि कुल रु. **2,93,54,200.00 (Excluding GST)** (दो कोटी तिरानबे लाख चौवन हजार दो सौ रुपये मात्र) है जो कि निविदा की अनुमानित राशि रु. 3,39,10,524.00 (Excluding GST) (तीन कोटी उनतालीस लाख दस हजार पाँच सौ चौबीस रुपये मात्र) से **13.436 %** नीचे है।

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 **Rs 2,93,54,200.00 (Excluding GST)** (Rupees Two Crores Ninety Three Lakhs Fifty Four Thousand and Two Hundred Only) which is **13.436 %** below the estimated Cost put to tender of Rs. 3,39,10,524.00 (Excluding GST) (Rupees Three Crores Thirty Nine Lakhs Ten Thousand Five Hundred Twenty Four Only).

महाप्रबंधक(अभि-परि) कार्यालय

पुणेविमानतल,पुणे-411032

दूरध्वनी: (020)-26687271

ई-मेल: gmenggpripune@aai.aero

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2. संयुक्त महाप्रबंधक, अभि -वि. (परियोजना) भाविप्रा पुणे विमानक्षेत्र कार्य के प्रभारी अभियंता होंगे। आपसे निवेदन है कि आप आपकी ओर से एक विश्वसनीय प्रतिनिधि नियुक्ति करें जो करार नामे पर हस्ताक्षर करने के लिए अधिकृत हो। तथा वह दिनांक **17.03.2023** तक संयुक्त महाप्रबंधक, अभि - वि. (परियोजना), पुणे एयरपोर्ट के कार्यालय में उपस्थित हो तथा करार नामे को पूरा करें। ठेका का करार नामा **रु. 100/-** नानज्यूडिसियल स्टम्प पेपर पर निष्पादित किया जाएगा तथा पेपर का खर्च आपके द्वारा उठाया जायगा।

Jt.G.M., Engg-E (Proj), AAI, Pune Airport shall be the Engineer-In-Charge of the work. You are requested to depute your accredited representative, empowered to sign the contract agreement on your behalf, to attend the office of the Jt.G.M. Engg-E (Proj), AAI, Pune Airport by **17.03.2023** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs. 100/-** (Rupees One hundred only) and the cost of the stamp paper shall be borne by you.

3. आपकी निविदा के साथ प्राप्त बयाना राशि रु. 6,78,210.00 (छह लाख अठहत्तर हजार दो सौ दस रुपये मात्र) को जीसीसी खंड संख्या 1A पृष्ठ संख्या GCC -18 के अनुसार सुरक्षा जमा के हिस्से के रूप में माना जाएगा और परिवर्तित किया जाएगा। कृपया रुपये. 22,57,210.00 (बाईस लाख सत्तावन हजार दो सौ दस मात्र) इस पत्र के जारी होने की तारीख से एक सप्ताह के भीतर सुरक्षा जमा के रूप में जमा करें, ऐसा न करने पर, जीसीसी खंड संख्या 1A पृष्ठ संख्या GCC -18 और निविदा दस्तावेज़ के प्रासंगिक खंड के अनुसार कटौती की जाएगी।

The earnest money amount to Rs. 6,78,210.00 (Rupees Six Lakhs Seventy Eight Thousand Two Hundred & Ten Only) received along with your tender will be treated and converted as part of part of security deposit as per GCC clause No. 1A, Page No. GCC-18 & relevant clauses of tender document. Please deposit Rs. 22,57,210.00 (Rupees Twenty Two Lakhs Fifty Seven Thousand Two Hundred and Ten only) towards security deposit within a week from the date of issue of this letter failing which, same shall be deducted as per GCC clause No. 1A, Page No. GCC-18 & relevant clauses.

4. आपसे अनुरोध है कि ठेका श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और ठेका श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 बाल श्रम (निषेध और विनियमन) अधिनियम 1986, निर्माण श्रमिक (रोजगार का विनियमन और सेवा की शर्त) के प्रावधानों का पालन करें। अधिनियम 1996, भवन और निर्माण श्रमिक कल्याण उपकर अधिनियम 1996, जैसे की निविदा में निर्दिष्ट है और केंद्र और राज्य सरकार के नियमानुसार है।

You are requested to comply with the provisions of contract labour (Regulation and abolition) Act of 1970 and contract labour (Regulation & abolition) Central rules 1971

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23/03/23



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child labour (prohibition & regulation) Act 1986, construction worker (regulation of employment and condition of service) Act 1996, Building and other construction works welfare cess Act 1996 as specified in tender and rules of Central and State Government.

5. आपको निर्देश दिया जाता है कि आप तुरंत सहायक महाप्रबंधक (अभि-वि.)-I, परियोजना विभाग, भाविप्रा, पुणे विमानक्षेत्र से मिले वह आपको साइट सौंपने की व्यवस्था करेंगे।

You are also directed to Contact AGM (Engg-E)-I, Project Division, AAI, Pune Airport, immediately who will arrange to hand over the site to you.

6. कृपया ध्यान दें की कार्य करने के लिए 04 (चार) महीने होंगे जो कि कार्य प्रारम्भ की गणना इस पत्र के जारी होने के तारीख के दसवे दिन से की जाएगी।

Please note that the time allowed shall be 04 (Four) Months which shall be reckoned from the tenth day of the issue of this letter.

7. संदर्भ के तहत यह पत्र समझौते का हिस्सा होगा।

This letter under reference shall form part of the Agreement.

8. अनुबंध के संबंध में पत्राचार सामान्य रूप से प्रभारी अभियंता को संबोधित किया जाना चाहिए।

Any further correspondence in connection with the contract Act should normally be addressed to the Engineer-In-Charge.

9. कृपया रसीद की पावती दें और इसके साथ संलग्न इस पत्र की डुप्लिकेट को स्वीकृति के प्रतीक के रूप में अधोहस्ताक्षरी के हस्ताक्षर करने के बाद लौटा दें।

Please acknowledge the receipt and return the duplicate of this letter enclosed herewith after signing it to the undersigned as token of acceptance.

यदि अंग्रेजी और हिन्दी पाठ में कोई अंतर पाया जाता है तो अंग्रेजी विवरण सही माना जाएगा।

If there is any discrepancy between English and Hindi then meaning derived in English will be given precedence.

भवदीय / Yours faithfully,

सं.म.प्र. (अभि-विद्युत)/Jt. GM. (Engg-E),

कृते तथा ओर से, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण,

For and on behalf of Chairman, Airports Authority of India.

संलग्न/Encl: Schedule of Quantity (17 Pages).

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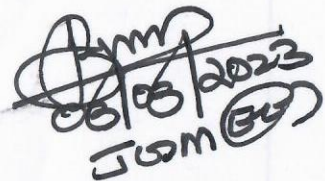
SCHEDULE OF WORK

Name of Work: Construction of New Integrated Passenger Terminal Building, Reconstruction of Old Terminal Building, Modification of Existing expanded Terminal Building at Civil Enclave Pune Airport, Pune.

SH: Provision of Internal & External Signages.

Tender ID: 2022_AAI_139372_1

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
1.00	Fabrication, supply, installation and commissioning of illuminated, following type ceiling hung directional signs including all accessories, internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white translucent acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Suspender: Suspender shall be of stainless steel 35 mm x 35 mm hollow section. All hardware used for fixing of sign shall be Stainless steel. Lighting:- All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.1a, 2.1aS-01, 2.1aG-01.				
1.10	Size of Signage - 2100 x 255	9.00	Each	28634.72	257712.49
1.20	Size of Signage - 2100 x 510	8.00	Each	41009.27	328074.18


 JWM (JWM)

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
2.00	Fabrication, supply, installation and commissioning of illuminated, following type floor mounted directional signs with display screen including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white translucent acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign Structure: All structural members in SS square post 100 x 100 and horizontal cross tie member square sections 75x75mm, 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. The Post shall be always be a single continuous element without any joints. The post is also support an open hinge lockable service door towards the bottom of the sign to house the electrical controllers for maintenance. Information Panel: FIDS (lcd screen 46") mounted on cross ties with brackets. (FIDS screen not in scope) Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.1b-1, 2.1bS-01, 2.1bG-01 Mounting structure size of ht of 3810mm				
2.10	Size of Signage - 2100 x 1300 mm, Size of frame structure 2400x3810mm - as per drg 2.1b-1	2.00	Each	126348.48	252696.97
3.00	Fabrication, supply, installation and commissioning of illuminated, following type wall mounted directional signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white translucent acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx25mm hollow square sections and shall be directly fixed to the sign frame. Mounting : Mounting structure shall be of stainless steel to fix on the wall . All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.1c. 2.1cS-01, 2.1cG-01				
3.10	Size of Signage - 2100 x 255mm - Single Sided	4.00	Each	24929.05	99716.21

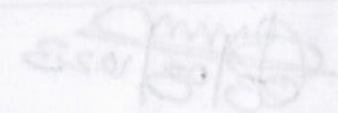
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03/03/2023

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
3.20	Size of Signage - 2100 x 510mm - Single Sided	10.00	Each	34064.54	340645.42
4.00	Fabrication, supply, installation and commissioning of illuminated, following type Wall Projected Directional Sign directional signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Suspender/ Mounting Mounting shall be of stainless steel of 10mm tension rod arrangement mounted on columns/walls with clip hook arrangement on top of the sign panel. All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.1d, 2.1dS-01, 2.1dG-01	10.00	Each	34064.54	340645.42
4.10	Size of Signage - 2100 x 255	10.00	Each	30047.10	300471.02
4.20	Size of Signage - 2100 x 510	9.00	Each	43409.27	390683.47
5.00	Fabrication, supply, installation and commissioning of illuminated, following type floor mounted Pylon Directional Sign directional signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. The signage shall be dust and vermin proof, fabricated in an integrated arrangement of Aluminium profile sections with hot dip galvanized MS structural members with openable doors on single / double sides for easy maintenance and serviceability, built in locking arrangement, concealed rubber gasket into the profile sections. The signages shall have 12mm thick toughened glass to receive graphics from inside. Plotter cut blackout vinyl colour Pantone Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics with a layer of 3M white diffuser film for even spread of illumination. The rolling tray panel shall be fabricated from 5mm thick cast acrylic sheets. The signage shall have crash guard 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. The illumination shall be provided with LED's with electric controller along with connectors, internal concealed wiring in profile sections, earthing the body etc. Refer drawings 2.1e	9.00	Each	43409.27	390683.47
5.10	Size of Signage - 2400 x 900mm - Double Sided	6.00	Each	134635.15	807810.91
5.20	Size of Signage - 2400 x 900mm - Single Sided	6.00	Each	122057.63	732345.81



Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
6.00	Fabrication, supply, installation and commissioning of illuminated, following type Wall Mounted Facility Announcer signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Mounting : Mounting structure shall be of stainless steel to fix on the wall . All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2a, 2.2aS-01, 2.2aG-01				
6.10	Size of Signage - 900 x 450	63.00	Each	16605.42	1046141.34
7.00	Fabrication, supply, installation and commissioning of illuminated, following type of signs Wall Projected Facility Announcer including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Mounting: Mounting shall be of stainless steel arrangement mounted on columns/walls. All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2b, 2.2bS-01, 2.2bG-01				
7.10	Size of Signage - 900 x 450	8.00	Each	21614.66	172917.31


 03/03/2023


 03/03/2023

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
8.00	Fabrication, supply, installation and commissioning of illuminated, following type Ceiling Hung Facility Announcer signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be of 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Suspender: Suspender shall be of stainless steel 35 mm x 35 mm hollow section. All hardware used for fixing of sign shall be Stainless steel Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2e-1, 2.2e-1S-01, 2.2e-1G-01				
8.10	Size of Signage - 1500 x 255	16.00	Each	68392.73	1094283.66
9.00	Fabrication, supply, installation and commissioning of following type signs illuminated, Ceiling Hung Facility Announcer with FIDS including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be made of 100mm 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Suspender: Suspender shall be of stainless steel 35 mm x 35 mm hollow section. All hardware used for fixing of sign shall be Stainless steel Information Panel: Mounting arrangement for FIDS (Icd screen 42/43") with cross ties internally , brackets etc shall be provided. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2e-2, 2.2e-2S-01, 2.2e-2G-01				
9.10	Size of Signage - 1500 x 600/625 (Suitable as per FIDS screen)	34.00	Each	86270.34	2933191.44



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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
10.00	Fabrication, supply, installation and commissioning of illuminated, following type floor mounted boarding gate sign including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8 mm thick 040 white acrylic having graphics pasted in plotter cut blackout vinyl. The plotter cut vinyl shall be of Pantone Black 6C colour and blackout vinyl Pantone yellow C or Cyan 311c as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame shall be made of 50 mm 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign Structure: Sign structural members shall be made of SS square post 100 x 100 and horizontal cross tie member sections 75x75mm of brush finished in single continuous element. It shall be mounted / anchored on ground with SS base plate embedded below the floor finish and Gussets in 6mm thick SS Plate as per drawing with holes to fix it and provided with a floor trim ring. The post shall closed with a 3 mm thick SS plate. The post shall have an open hinge lockable service door towards the bottom of the sign to house the electronic controllers for maintenance. All hardware used for fixing of sign shall be Stainless steel. . Information Panel: Mounting arrangement for FIDS (Icd screen 42/43") with cross ties internally , brackets etc shall be provided. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2g-3, 2.2g-3S-01, 2.2g-3G-01				
10.10	Size of Signage - 3000 x 600/625	7.00	Each	91386.29	639704.06
11.00	Fabrication, supply, installation and commissioning of following type illuminated, Ceiling Suspended Belt number signs. including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign Box: Sign box made of CRCA sheet in laser cut Bent Fabrication with 8mm thick clear acrylic pantone yellow C Vinyl pasted over acrylic with white diffuser film on inside face . Blockout vinyl for text shall be Pantone Black 6C. Complete box excluding bottom side is lighted with internal LED lighting. Acrylic fabrication shall have transparent structural supports for obstruction free lighting. Box to be directly mounted on the sign structure. Bottom panel: Bottom MS Panel shall be powder coated of colour Vinyl Black of Pantone Black 6C. Sign Structure: All structural members in SS square post 75 x 75 mm in brush finished. All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.2h. 2.2hS-01, 2.2hG-01				
11.10	Size of signage - 600 x 600 - Four Sided	5.00	Each	57826.03	289130.13


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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
12.00	Fabrication, supply, installation and commissioning of following size Airport map illuminated signs including mounting on ground, all accessories, internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blockout vinyl shall be colour of Pantone Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics. The Map to be printed on translucent vinyl and pasted on top of the white translucent acrylic. Sign Frame: Sign frame shall be made of 50 mm 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign Structure: Sign structural members in SS square post 75 x 75 and horizontal cross tie member sections 75x75mm, brush finished continuous element without any joints. Base plate embedded below the floor finish and provided with a floor trim ring. 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. Mounting height of the structure including sign board shall be 2620 mm as per drg. All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer drawing 2.3a, 2.3aS-01, 2.3aG-01				
12.10	Size of signage - 1800 x 1430	1.00	Each	109341.32	109341.32
13.00	Fabrication, supply, installation and commissioning of following size illuminated Airport map baraille signs including mounting on ground, all accessories, internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required Sign face: Sign face shall be made in 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blockout vinyl shall be colour of Pantone Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics. The Map to be printed on translucent vinyl and pasted on top of the white translucent acrylic. All map and text to be provided in Braille. The dots of each cell must be easily discernible by touch and the height of the dots must be sufficient to be easily distinguished from the background. Sign Frame: 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 both way tape from the other side. The panel should be made easily openable for maintenance. Sign Structure: Sign structural members in SS square post 75 x 75 and horizontal cross tie member sections 75x75mm, brush finished continuous element without any joints. Base plate embedded below the floor finish and provided with a floor trim ring. 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. Mounting height of the structure including sign board shall be 2620 mm as per drg. All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer drawing 2.3a, 2.3aS-01, 2.3aG-01				
13.10	Size of signage - 1800 x 1430	1.00	Each	109341.32	109341.32


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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
14.00	Fabrication, supply, installation and commissioning of following size illuminated Lift directory signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required Sign face: Sign face shall be made in 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blackout vinyl shall be of colour Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: 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 both way tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Sign internal structure shall be made of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Mounting : Mounting structure shall be of stainless steel to fix on the wall . All hardware used for fixing of sign shall be Stainless steel. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.3b, 2.3bS-01, 2.3bG-01				
14.10	Size of signage - 460 x 800	34.00	Each	15061.21	512081.30
15.00	Fabrication, supply, installation and commissioning of following size illuminated type wall mounted washroom/drinking water/baby care signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blackout vinyl shall be of colour Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: 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 both way tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Internal framework of aluminium 25mmx 25mm hollow square sections and shall be directly fixed to the sign frame. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.4a, 2.4aS-01, 2.4aG-01				
15.10	Size of signage - 450 x 450	34.00	Each	11776.12	400388.10

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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
16.00	Fabrication, supply, installation and commissioning of following size illuminated type wall projected washroom/drinking water/baby care signs including all accessories , internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made in 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blackout vinyl shall be colour of Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics and shall be applied on the entire surface of the acrylic behind the black blackout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame 50mm wide powder coated to match 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 on one side and 3M double side tape from the other side. The panel should be made easily openable for maintenance. Sign internal Structure: Internal framework of aluminium 25mmx 25mm square hollow section and shall be directly fixed to the sign frame. Signage to be projected using internal SS supports of 50x50mm. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots. Refer design drawing 2.4a, 2.4aS-01, 2.4aG-01				
16.10	Size of signage - 450 x 450	38.00	Each	11776.12	447492.58
17.00	Providing and fixing of following size service area signages etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be digitally printed Graphics on vinyl, pasted on 3mm thick black acrylic, mounted on walls/claddings/ paneling's using 3M VHB Double Side Tape etc. Refer design drawing 2.4b, 2.4bSG-01				
17.10	Size of Signage - 250 x 300	177.00	Each	1743.68	308631.45
18.00	Information Sign - Vinyl Stickers Providing and fixing of information signages etc as per technical specifications complete as required. Sign face: Digitally printed Graphics on self adhesive vinyl pasted on mounted on walls/claddings/ paneling's. The graphic print colour shall be Pantone Black 6C and text Pantone yellow C or Cyan 311C or as per artwork. Refer design drawing 2.7b				
18.10	Size of Signage -As per standard.	10.00	Sq.Mtr	2092.42	20924.17

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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
19.00	Emergency Signs - Assembly Point Sign Fabrication, supply, installation and commissioning of outdoor type illuminated signs, including all accessories, internal wiring, termination of existing power cables etc as per drawing and technical specifications complete as required. Sign face: Sign face shall be made of screen printed graphics, 8mm thick 040 white acrylic having graphics pasted in Plotter cut Blockout vinyl. The Plotter cut blockout vinyl shall be colour of Black 6C and vinyl for text Pantone yellow C or Cyan 311C as per graphics and shall be applied on the entire surface of the acrylic behind the black blockout vinyl to avoid peelage, along with a layer of 3M white diffuser film on the inside for even spread of illumination. Sign Frame: Sign frame fabricated using internal aluminium / painted MS Structure to receive the sign face. The sign face shall be screwed to sign frame at equal angles. The sign frame to be supported on a PU painted GI post of 100mm outer dia. The panel should be made easily openable for maintenance. Foundation: 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. Lighting: All internal illumination shall be provided using suitable LED Modules with electronic controllers, having even spread and overlaps to avoid banding and dark spots.				
19.10	Size of Signage - 594 x 420 - Three Sided (Outdoor type)	3.00	Each	59285.14	177855.41
20.00	Fabrication, Supply, Installation and Commissioning of following size Single Sided Non-illuminated external type pole mounted vehicular direction signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panel made of 3 mm thick Aluminium sheet fabrication fixed to internal frame. White retro-reflective vinyl Type XI pasted edge to edge over the Aluminium sheet. Graphics in plotter cut RAL 5013 exterior grade opaque vinyl pasted over the white retro reflective vinyl. Sign Frame: Sign frame fabricated using in 50 x50 x 2 mm M.S. square section hot dipped galvanized and P.U.Painted to match RAL 9006. Frame to be directly fixed to the sign structure. which will further receive the sign faces. Sign Structure: MS square post 125 x 125 x 4 mm and horizontal square sections 75 x 75 x 2.5 mm, hot dipped galvanized 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 hot dipped galvanized and P.U. Painted to match RAL 9006. The Post shall be always be a single continuous element without any joints. Cost to include all activities for a perfect vertical in plumb installation, shim plates for adjustment of levels and filling the gap with concrete slurry etc required for fixing the sign in an external location. 225 x 225 mm size, 2 mm thick stainless steel cover plate shall be mounted on the finished flooring. Foundation: Laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, RCC filling etc. 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. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, J-bolts, etc. complete as per drawing and technical specifications. Refer design drawing 1.3a, 1.3aS-01, 1.3aG-01				

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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
20.10	Size of Signage - 2100 x 1300	9.00	Each	129766.10	1167894.88
21.00	Fabrication, Supply, Installation and Commissioning of following size Double Sided Non-illuminated external Pedestrian Directional signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panels made of 3 mm thick Aluminium sheet fabrication fixed to internal frame. White retro-reflective vinyl Type XI pasted edge to edge over the Aluminium sheet. Graphics in plotter cut RAL 5013 exterior grade opaque vinyl pasted over the white retro reflective vinyl. Sign Frame: Sign frame fabricated using in 50 x 50 x 2 mm M.S. square section hot dipped galvanized and P.U. Painted to match RAL 9006. Frame to be directly fixed to the sign structure. which will further receive the sign faces. Sign Structure: Square posts and horizontal square sections in MS square hollow section 75 x 75 x 2.5 mm, hot dipped galvanized 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 hot dipped galvanized and P.U. Painted to match RAL 9006. The Post shall be always be a single continuous element without any joints. Cost to include all activities for a perfect vertical in plumb installation, shim plates for adjustment of levels and filling the gap with concrete slurry etc required for fixing the sign in an external location. 225 x 225 mm size, 2 mm thick stainless steel cover plate shall be mounted on the finished flooring. Foundation: Laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, RCC filling etc. 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. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, J-bolts, etc. complete as per drawing and technical specifications. Refer design drawing 1.3b, 1.3bS-01, 1.3bG-01				
21.10	Size of Signage - 2100 x 1300	2.00	Each	130350.58	260701.16



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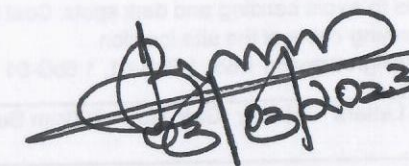
Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
22.00	Fabrication, Supply, Installation and Commissioning of Single Sided Non-illuminated external type Traffic Statutory signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panel made of 3 mm thick Aluminium sheet fabrication fixed to internal frame. White retro-reflective vinyl Type XI pasted edge to edge over the Aluminium sheet. Graphics in plotter cut RAL 5013 and Red Pantone 485C exterior grade opaque vinyl pasted over the white retro reflective vinyl. Sign Structure: Square post in MS square hollow section 50 x 50 x 2 mm, hot dipped galvanized and powder coated to match RAL 9006. Post including welded MS anchor angles in 6mm thick MS angle of 50x50 as per drawing anchored in concrete footing. The entire post assembly shall be hot dipped galvanized and P.U. Painted to match RAL 9006. The Post shall be always be a single continuous element without any joints. Cost to include all activities for a perfect vertical in plumb installation, shim plates for adjustment of levels and filling the gap with concrete slurry etc required for fixing the sign in an external location. Foundation: Laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, RCC filling etc. 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. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, J-bolts, etc. complete as per drawing and technical specifications. Refer design drawing 1.4a, 1.4aS-01				
22.10	Size of Signage - 600mm dia.	22.00	Each	20484.76	450664.69
23.00	Fabrication, Supply, Installation and Commissioning of following size Single Sided Non-illuminated column mounted external type traffic statutory signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panel made of 3 mm thick Aluminium sheet fabrication fixed to internal frame. White retro-reflective vinyl Type XI pasted edge to edge over the Aluminium sheet. Graphics in plotter cut RAL 5013 and Red Pantone 485C exterior grade opaque vinyl pasted over the white retro reflective vinyl. Sign face to be installed on existing columns at site with suitable structural arrangement in galvanised MS angle painted of 50x50x2 mm. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts,, etc. complete as per drawing and technical specifications. Refer design drawing 1.4a				
23.10	Size of Signage - 600mm dia.	11.00	Each	20484.76	225332.34


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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
24.00	Airline Listing Announcer Fabrication, Supply, Installation and Commissioning of Three Sided external signage illuminated from two sided as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign box: Sign box with laser cut Bent Fabrication in 8mm thick clear acrylic with pantone yellowC opaque vinyl pasted on it. Text in opaque black vinyl matching with RAL 9011. Complete box excluding bottom side is lit internally using suitable LED's. Acrylic fabrication shall have transparent structural supports for obstruction free lighting. Box to be directly mounted on the sign structure. Sign Structure: MS square post 50 x 50 x 2 mm fabrication, hot dipped galvanized and fixed to the ground. Frame to receive the sign faces. Sign Face: Sign face panels 3 mm thick Aluminium sheet fabrication, Aluminium sheet powder coated to match RAL 9011 with a provision of through and through laser cutting for airline branding panel : LGP (LIGHT GUIDED PANEL) with replaceable graphics Panel a :400mm x 180mm, Panel b:210mm x 180mm which is fabricated using 8mm 040 acrylic to receive the text/matter sticker from the airlines. The provision for airline listing to be on the 2 front visible sides only. Crash Guard : 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. Illumination: All internal illumination shall be using light guided panel 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 location. Foundation: Laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, RCC filling etc. 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. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, J-bolts, etc. complete as per drawing and technical specifications. Refer design drawing 1.5b, 1.5bS-01, 1.5bG-01				
24.10	Size of Signage : 3600 x 900	5.00	Each	225283.52	1126417.60
25.00	Fabrication, Supply, Installation and Commissioning of external type illuminated entry / exit announcer sign in the existing portal as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Letters: Primary channel letters 60mm thk and Secondary profile cut letters 25mm thk to be fabricated in 1.2mm Stainless steel sides and back welded together with 6mm milky acrylic. All the letters would be made in profile to achieve true right angle. All mounting would be done in true plumb and using template, keeping the alignment of the letters in one level on the Portal. Illumination: All internal illumination shall be using LED modules 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 location. Refer design drawing 1.6b, 1.6bS-01, 1.6bG-01				
25.10	Size of Letters - Primary (Gate No.) - 700mm Secondary (Departures/Arrivals) - 250mm English and 150mm Regional & Hindi	11.00	Set	147507.00	1622577.01

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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
26.00	Fabrication, Supply, Installation and Commissioning of following size four sided external type floor mounted facility announcer signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panel made of 3 mm thick Aluminium sheet fabrication fixed to internal frame. White retro-reflective vinyl Type XI pasted edge to edge over the Aluminium sheet. Graphics in plotter cut RAL 5013 exterior grade opaque vinyl pasted over the white retro reflective vinyl. Sign Structure: Square post in MS square hollow section 75 x 75 x 2 mm, hot dipped galvanized and powder coated to match RAL 9006. Post including welded MS anchor angles in 6mm thick MS angle of 50x50 as per drawing anchored in concrete footing. The entire post assembly shall be hot dipped galvanized and P.U. Painted to match RAL 9006. The Post shall be always be a single continuous element without any joints. Cost to include all activities for a perfect vertical in plumb installation, shim plates for adjustment of levels and filling the gap with concrete slurry etc required for fixing the sign in an external location. Foundation: Laying foundation for the sign including its compaction and all activities like Excavation, PCC base layer, RCC filling etc. 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. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, J-bolts, etc. complete as per drawing and technical specifications. Refer design drawing 1.7a, 1.7aS-01, 1.7aG-01				
26.10	Size of Signage : 600 x 600	5.00	Each	59027.07	295135.36
27.00	Fabrication, Supply, Installation and Commissioning of Single Sided Non-illuminated external type facility announcer - building mounted signage as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques. Sign Face: Sign face panel made of 3 mm thick Aluminium sheet fabrication PU Painted to match RAL 5013, grooved and folded to achieve the desired shape as per drawing and fixed onto the internal MS frame. Router cut White retro-reflective Type XI vinyl text and pictographic pasted over the Aluminium sheet. Sign Structure: Structure in MS square hollow section 25 x 25 x 1.6 mm, hot dipped galvanized. Accessories: The item cost includes all accessories such as nut-inserts, screws, rivets, bolts, washers, nuts, fasteners, etc. complete as per drawing and technical specifications. Refer design drawing 1.7c, 1.7cS-01, 1.7cG-01				
27.10	Size of Signage : 4000 x 1000 or as per site	16.00	sq mtr	64163.96	1026623.28


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Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
28.00	Fabrication, Supply, Installation and Commissioning of following size external type Illuminated terminal building announcer sign of sign as per drawings and technical specifications. All exterior signs should be manufactured considering harsh outdoor conditions and weatherproofing techniques shall be used. (Considering all Alphabets for English, Hindi and Marathi) Sign Letters: Channel letters 80mm thick fabricated in 3mm Aluminium sheet with side and back welded together with 6mm white translucent 040 acrylic front. All the letters would be made in profile to achieve true right angle. All mounting would be done in true plumb and using template, keeping the alignment of the letters in one level. 3M 3635-91 Day/Night vinyl to be applied on the acrylic surface for letters to be in contrast visibility through night and day. Illumination: All internal illumination shall be using LED modules 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 location. Refer design drawing 1.8, 1.8S-01, 1.8G-01				
28.10	Letter Ht. - 900mm - ENGLISH (PUNE AIRPORT)	1.00	Set	418483.32	418483.32
28.20	Letter Ht. - 900mm - HINDI (PUNE AIRPORT)	1.00	Set	418483.32	418483.32
28.30	Letter Ht. - 900mm - MARATHI (PUNE AIRPORT)	1.00	Set	418483.32	418483.32
29.00	COLUMN NUMBERS Providing and fixing of retro reflective sheeting of 1500mm height with all around with pressure sensitive adhesive and liner, and the flexibility, retro reflectivity and other relevant properties confirming to Type-XI, for rebound able devices. Above sheeting shall be flexible and conformable enough to be directly applicable on rough concrete, ACP or masonry surfaces with a high performance contact adhesive. The edges of above sheeting shall be sealed on all four sides after application with a two-part epoxy based structural adhesive and shall be extremely resistant to peel-off. Refer design drawing: B				
29.10	Size of number - 600 mm and as other text as per drg.	24.00	Each	10462.08	251089.99
30.00	HEIGHT RESTRICTION SIGN FOR AEROBRIDGES Providing and fixing of aluminum backed flexible prismatic retro reflective sheeting of 1ft width, with screen printed arrow/slant line pattern in black and a continuous roll format, laminated at the back with a 50 micron Aluminum (Al) foil with pressure sensitive adhesive and liner, and the flexibility, retro reflectivity and other relevant properties confirming to Type-XI, for rebound able devices. Above sheeting shall be flexible and conformable enough to be directly applicable on rough concrete, wood or masonry surfaces with a high performance contact adhesive. The edges of above sheeting shall be sealed on all four sides after application with a two-part epoxy based structural adhesive and shall be extremely resistant to peel-off. Refer design drawing: C				
30.10	Size of Sign - 3000x300 (Text as per site)	20.00	Each	14646.92	292938.32

 03/03/2023

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
31.00	ROAD MEDIAN MARKER Providing and fixing of median marker made of tough, high impact resistant, injection - moulded, thermoplastic body with an isosceles trapezoidal structure of length, width and height not less than 12 cm, 10 cm and 10 cm respectively and thickness not less than 1.8 mm. The Median Marker shall have fluorescent yellow color retro-reflective sheeting of size not less than 8.5 cm x 8.5 cm and with fully reflective micro prismatic sheeting as its retro-reflective elements and meets type XI and the sheeting manufacturer's name shall be embossed on median marker. The retro-reflective sheeting shall be one side or both sides of the Median Marker as per the requirement and shall be edge protected with no exposed edges that prevent edge lifting, vandalism, sheeting damage etc. The Median Marker shall be fixed by a combination of epoxy adhesive and grouting. The Median Marker is embedded in M-15 cement concrete in pit size 200 mm X 200 mm X 300 mm.	500.00	Each	697.47	348736.10
32.00	ROAD STUDS Providing and fixing of Raised Pavement Markers made of polycarbonate moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 13635 kg tested in accordance to Type H and complying to Specifications of Category A. The height, width and length shall not exceed 20 mm, 105 mm and 105 mm and with minimum reflective area of 13 Sq cm on each side and the slope to the base shall be 35 +/- 5 degree. Fixing will be without nails but by using twin polymer shanks using epoxy resin based adhesive as per manufacturer's recommendation including site clearance etc.	2000.00	Each	348.74	697472.20
33.00	Supply, installation, testing & Commissioning of Addressable fully monitored Double sided Ceiling hung mounted signage with 2 nos. 1-2 mtrs. G.I Tie rod for Ceiling installation, 230V AC/DC luminaire, Viewing distance up to 30m, Ingress protection IP40, Glow Wire Test of PC, PMMA Materials suitable for 650 °C maximum 5W including all required accessories & suspension arrangement as required as per site. Certification: according to technical specifications and drawings via Central Battery panel complete in all respect as required.				
33.10	Pictogram: UP/ Down arrow, right arrow, left arrow, EXIT	180.00	Each	34575.09	6223516.54
34.00	Supply, installation, testing & Commissioning of (Factory fabricated of OEM) Central Battery system for Adaptive Emergency Lighting & exit signages with minimum 4.3" TFT display for supplying safety and escape sign luminaires 230V-50/ 60Hz and 216V DC. TCP/IP on board for BMS integration. Includes an automatic test device for individual luminaires. Built in charger module, adaptor & all accessories. Phase monitoring devices, Individual battery string(s) monitoring, Individual battery blocks (optional) and the Isolation test device. Fully integrated with fire alarm system modules for adaptive signages. Colour touch display with dimmable wide format TFT-64K display, for programming (with different user profiles and password protected access), fault reporting, (non-volatile) Internal memory for achieving the device configuration, and logbook information storage for at least 1 years. Panel shall be fitted with a deep discharge protection circuit, which has two operation phases: When in battery mode the battery voltage decreases to 195V, a preliminary deep discharge alarm shall be given. When the battery voltage decreases to 175V, the load shall be disconnected. The circuit shall allow the battery to increase its voltage without switching the load ON again, thus avoiding detrimental full discharge. The panel shall automatically return to normal operation, once the mains supply recovers. Certification: according to technical specifications (BACNET/ IP Interface for integration with 3rd party BMS shall be included within the cost) complete in all respect as required.				
34.10	12 Circuit including 16A DC rated MCB for each circuit or equivalent configurations of circuits in no. of panels as per OEM with provision for battery.	2.00	Each	642012.00	1284024.00
35.00	Supply, installation, testing & Commissioning of VRLA BATTERIES with the above housing of CBS Panel. Batteries shall be maintenance free VRLA sealed lead acid gas recombination type with a minimum design life of 10 years at prevailing ambient temperature. They shall have extremely low gas generation, low self-discharge and have permanently sealed pressure release vents. The batteries shall be minimum of 18 Nos. 14 AH, 12 volt each shall be sized to power complete system for 90 Minutes following mains failure at 100% light output of all emergency lamps complete in all respect as required. Battery size can be higher as per calculations to be produced by OEM for approval.	2.00	Each	171858.54	343717.09

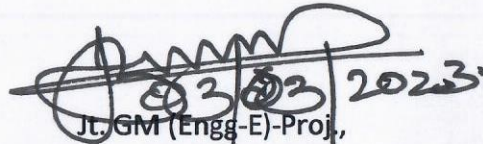

 23/03/2023

Sl. No	Description of Work / Item(s)	Quantity	Unit	Rate	Final Amount
36.00	Supply, installation, testing & Commissioning of Graphical user Interface with PC. This should be web-based client/ server architecture: Use of standard web browser on the client PC, no special client software installation necessary. Should be extremely versatile: full visualization, monitoring and programming of up to 500 emergency lighting systems with over 1,000,000 emergency luminaires, Orientation made easy: With luminaire texts and additional information fields for each luminaire, alongside aerial views and floor plans of the emergency lighting systems and luminaires (in preparation), Transparent and user-friendly log books and extensive print functions provide a clear overview, Automatic notifications: The integrated email function with numerous setting options conveniently sends information via email and thereby eliminates the need for in-person inspections. Graphical representations of battery analogue values in the statistic menu offer a clear representation in the form of diagrams over time, Occurring faults can be conveniently forwarded to external applications via an integrated export function, Battery block monitoring: graphic display of the optionally available individual battery block monitoring with single battery block voltage and single battery block temperature complete in all respect as required.	1.00	Each	226771.93	226771.93
37.00	Providing and fixing of following descriptive photo luminescent Green or Red colour safety Signages in different sizes/ graphics/colours/text made according to the relevant fire safety standards. All Photo luminescent signs to be fabricated using 1mm rigid pvc based sheet containing lumingen 3, as base chemical, with high intensity luminous glow capacity with silk screen printed text / artwork.				
37.10	Photo luminescent Signages - Fire Extinguisher (Size-200mm x 250 mm)	66.00	Nos	1255.45	82859.70
37.20	Photo luminescent Signages - Fire Hose Reel (Size-300mm x 300 mm)	55.00	Nos	1743.68	95902.43
37.30	Photo luminescent Signages - Floor Level (Size-300mm x 300 mm)	30.00	Nos	1743.68	52310.41
37.40	Photo luminescent Signages - Elevator Disclaimer (Size-300mm x 300 mm)	30.00	Nos	1743.68	52310.41
37.50	Photo luminescent Signages - Fire Escape (Size-150mm x 400 mm)	64.00	Nos	1394.94	89276.44
37.60	Photo luminescent Signages Fire Evacuation Plan (Size-500mm x 600 mm)	31.00	Nos	2092.42	64864.91
37.70	Photo luminescent Signages - Push Bar to Open (Size-150mm x 400 mm)	33.00	Nos	1394.94	46033.17

Total in Figures

2,93,54,200.00

Rupees Two Crores Ninety Three Lakhs Fifty Four Thousand and Two Hundred Only)


 03/03/2023
 Jt. GM (Engg-E)-Proj.,
 AAI, Pune Airport, Pune

Signature Not Verified

Digitally signed by TANAJI CHANDRAKANT KAMBLE
 Date: 2025.03.17 18:20:54 IST
 Location: eProcurement System for Central PSUs

