



संख्या / No: AAI/BD/AGM(E-E)/CW-04/2022-23/190

दिनांक / Date: 20.09.2022

सेवा मे / To,

M/s. Vinayak Infra Signs & Project Pvt. Ltd.,
24, Ground Floor, Pujit Plaza,
Sector – 11, CBD Belapur,
Navi Mumbai – 400614
E-Mail: vinayakinfrasons@gmail.com

विषय/Subject: Replacement of Passenger Information Signage Boards of Terminal Building and Ancillary areas at Bagdogra Airport, Bagdogra.

संदर्भ / Ref : 1) E-Tender ID No.: 2022_AAI_124483_1

प्रिय महोदय / Dear Sir(s),

1. उपर्युक्त कार्य हेतु आपका ऑफर अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से स्वीकृत किया जाता है, आपके द्वारा बताए गए मद मूल्यों पर आपकी ऑफर राशि कुल रु. 61,78,950.00 जी.एस.टी. के सिवा, जो कि टेंडर की न्यायोचित निविदा राशि रु. 85,68,834.00 से 27.89% नीचे है।

Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India at the item rates quoted by you totaling to **Rs. 61,78,950.00** (Rupees Sixty-One Lakhs Seventy-Eight Thousand Nine Hundred and Fifty only) excluding GST, which is 27.89% (Twenty-Seven-point Eighty Nine percent) below the Justified Cost of Rs. 85,68,834.00 (excluding GST).

2. सहायक महा प्रबंधक (अभि.-विद्युत), भा.वि.प्रा., बागडोगरा हवाईअड्डा, बागडोगरा-734421, इस कार्य के लिए प्रभारी इंजीनियर होंगे। आपसे निवेदन है कि आपकी ओर से आप अथवा आपके द्वारा अधिकृत प्रतिनिधि नियुक्त करें जो करारनामे पर हस्ताक्षर करने के लिए अधिकृत हो तथा वह दिनांक 04.10.2022 तक सहायक महा प्रबंधक (अभि.-विद्युत) के कार्यालय में करार पर हस्ताक्षर करने एवं उसको पूरा करने हेतु उपस्थित हो। ठेके का करारनामा रु. 100/- (रुपया एक सौ मात्र) के नॉन ज्युडिशियल स्टाम्प पेपर पर निष्पादित किया जाएगा तथा स्टाम्प पेपर का खर्च आपके द्वारा वहन किया जाएगा।

Assistant General Manager (Engg. -Elect.), AAI, Bagdogra Airport, Bagdogra-734421 shall be the Engineer-in – Charge of the work. You are requested to attend the office of Assistant General Manager (Engg. -Elect.), AAI, Bagdogra Airport, Bagdogra – 734421 by **04.10.2022** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value Rs. 100/- (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.

3. आपके निविदा से साथ प्राप्त बयाना राशि रु. 1,71,281/- को संविदा दस्तावेज के पृष्ठा 16 | GCC पर दी गई क्लस जि.सि.सि. 1(ए) के अनुसार सुरक्षा जमा के हिस्से के रूप में परिवर्तित कर दिया गया है। कृपा इस पत्र के 10 दिन में सुरक्षा जमा के लिए रु. 4,46,614/- जमा करवा दें, ऐसा नहीं करने पर संविदा दस्तावेज के पृष्ठा 16 | GCC पर दी गई क्लस जि.सि.सि. 1(ए) के अनुसार आपके रनिंग बिल से काट ली जाएगी।

The earnest money amount of Rs. 1,71,281/- (Rupees One Lakh Seventy-One Thousand Two Hundred and Eighty-One only) received along with your tender has been converted as part of security deposit as per GCC clause 1(A) on page 16 | GCC of the contract document. Please deposit Rs. 4,46,614 /- (Rupees Four Lakhs Forty-Six Thousand Six Hundred and Fourteen only) towards Security Deposit within 10 days from issue of this letter, failing which, the same will be deducted from your running bills as per GCC clause 1(A) on page 16 | GCC of the contract document.

4. आपसे निवेदन है कि आप केंद्रीय और राज्य सरकारों 1970 के अधिनियम श्रम अनुबंध नियम तथा 1971 के केंद्रीय नियम (नियमन तथा उन्मूलन) एवं केंद्र तथा राज्य सरकार के न्यूनतम वेतन अधिनियम और नियमों के प्रावधानों का अनुपालन अवश्य करें।

You are requested to comply with the provision of Contract Labour (Regulation & Abolition) Act 1970 and Contract Labour (Regulation & Abolition) Central Rules 1971 and minimum wages act and rules thereof Central and State Governments.

5. कृपया ध्यान दें कि कार्य को पूरा करने के लिए अनुमत समय 06(छह) महीने होगा और इसकी गणना इस पत्र के जारी होने के 10वें दिन के बाद से गिना जाएगी।

Please note that the time allowed for carrying out the work shall be 06 (Six) months and same shall be reckoned from the 10th day after issue of this letter.

6. आपको निर्देश दिया जाता है कि आप तुरंत सहायक महा प्रबंधक (अभि.-विद्युत), भा.वि.प्रा., बागडोगरा हवाईअड्डा, बागडोगरा-734421 से मिले वह आपको साईट सौंपने की व्यवस्था करेंगे।

You are directed to contact with the Assistant General Manager (Engg. -Elect.), AAI, Bagdogra Airport, Bagdogra-734421 who will arrange to hand over the site to you.

7. इस ठेके के संबंध में आगे का कोई भी पत्राचार इंजीनियर-इन-चार्ज को किया जाएगा।

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

8. कृपया पावती भेजे और स्वीकृति प्रतिलिपि के तौर पर संलग्नित पत्र की हस्ताक्षरित प्रति इस कार्यालय को अवश्य भेजे।

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.

9. यदि अंग्रेजी और हिन्दी पाठ में कोई असंगति पाया जाता है तो अंग्रेजी पाठ को सही माना जाएगा।

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

संलग्न/Encl : i) Schedule of work.

निष्ठापूर्वक/Yours faithfully

 20/09/22

(शुभ्र शान्त घोष /Subhra Santa Ghosh)

सहायक महा प्रबंधक (अभि.-विद्युत),
Assistant General Manager (Engg. -Elect.),

ए.ए.आई./बागडोगरा विमानतल

AAI, Bagdogra Airport.

सिलिगुड़ी-734421/Siliguri-73421

AIRPORTS AUTHORITY OF INDIA
ENGINEERING ELECTRICAL WING
BAGDOGRA AIRPORT

SCHEDULE OF QUANTITY

Name of Work: Replacement of Passenger Information Signage Boards of Terminal Building and Ancillary areas at Bagdogra Airport, Bagdogra.

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
1.00	Sign Type Code: 1.1 Sign Type: Airport Entry Portal Refer design drawing: 1.1-S, 1.1-G	1.00	Each	850000.00	8,50,000.00
	Providing and fixing Non-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.				
	Sign face				
	Providing and fixing sign face panels 3mm thick Aluminium sheet fabrication, Aluminium sheet fixed to horizontal structural truss. White retro-reflective vinyl pasted over edge to edge aluminium sheet. Graphics in plotter cut RAL 5013 exterior grade opaque vinyl pasted over white retroreflective vinyl.				
	Sign Frame (Spanning Truss)				
	Providing and fixing sign frame (Horizontal Spanning truss) in M.S. square section hot dipped galvanized as per drawing. Frame to be directly fixed to the sign structure. Frame to receive the sign faces.				
	Sign Structure				
	Providing a Square Sign post of 300 x 300 mm, 5.4mm thick MS hollow sections including welded Base plate in 8mm thick MS 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 be closed with a 6 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 as specified and approved by the Engineer-In-charge. 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 slurry etc. required for fixing the sign in an external location.				
	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. Size of 3-legged Gantry – 22 Mtr.(Length) X 1.5 Mtr.(Sign Height) X 6 Mtr. Clearance.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
2.00	Sign Type Code: 1.6a Sign Type: Arrival/Departure Zone Marker Refer design drawing: 1.6a-S, 1.6a-G	2.00	Each	90000.00	1,80,000.00
	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.				
	Sign Face				
	Providing and fixing entire Sign face all 4 sides, made of printed vinyl flex, with the letters/pictogram to match Pantone Black 6C and the rest of the vinyl to match Pantone Yellow C. To be mounted onto framework using appropriate clips and edge ties to be perfectly taut with no sagging. Stitching of the vinyl flex should not be visible to the customers, preferably given at the back side of the box.				
	Suspender				
	Providing and fixing suspension for the signs using Stainless steel Hollow section 100mm OD, thickness 3mm (assuming typical length of 15 ft.), cut, fabricated as per drawing and provided with connectors plates for mounting with holes and entire assembly finished in brush finish as approved by the Engineer in-charge. Suspender shall be made to required lengths for each sign for its location after studying the site and ensuring a perfectly aligned and leveled sign installation. This item includes all work done on false ceiling like opening/dismantling/local cutting to pass the suspender and reinstalling/doing good/assembling the same after fixing and installation on the sign.				
	Sign Frame				
	Providing and fixing 25mm x 25mm x 1.3mm MS square sections welded together to form a framework i/c gusset plate. Frame to be directly fixed to the sign suspender. Frame to receive the sign faces.				
	Stretching Member				
	Providing and fixing 5mm thick acrylic strips vertically to the sign frame to help stretching the sign face.				
	Bottom panel				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Bottom MS Panel powder coated in colour to match Vinyl Black of Pantone Black 6C.				
	Lighting				
	All internal illumination shall be using LED Lights of approved make 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. Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.				
3.00	Sign Type Code: 1.7b Sign Type: Facility Announcers - Wall Mounted Refer design drawing: 1.7b-S, 1.7b-G	12.00	Each	12000.00	1,44,000.00
	Providing and fixing non-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. Sign Face: Plotter cut Blockout vinyl Pantone Yellow C, vinyl for text Pantone Black 6C as per graphics, pasted over 5mm thick White translucent 040 acrylic. Sign Structure: 24mm wide powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face.				
4.00	Sign Type Code: 1.7d Sign Type: Facility Announcers -Passenger Amenities Refer design drawing: 1.7d-S, 1.7d-G	1.00	Each	28500.00	28,500.00
	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.				
	Sign Box 1				
	Providing and fixing sign box with laser cut Bent Fabrication in 5mm thick 040 acrylic with pantone yellow Vinyl pasted over acrylic with white diffuser film on inside face. Block out vinyl for text Pantone Black 6C. Complete box excluding bottom side is listed with internal LED lighting. Acrylic fabrication shall have transparent structural supports for obstruction free lighting. Box to be directly mounted on the sign structure.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Sign face				
	Providing and fixing sign face with 3 mm thick Aluminium sheet fabrication PU painted with black colour RAL 9011, Aluminium sheet fixed to sign structure with a provision of niche for concealed wiring/cableing of telephone connection as specified in the drawings.				
	Sign Structure				
	Providing and fixing MS hollow square 50 x 50 x 3 mm fabrication and fixed to the ground. Frame to receive the sign face with 3 mm thick Aluminium sheet fabrication with specified suitable colour, Aluminium sheet fixed to sign structure as specified in the drawings. The actual structural design of the sign for its stability shall be responsibility of the EPC contractor.				
	Lighting				
	All internal illumination shall be using LED Lights of approved make or equivalent 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.				
	Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.				
5.00	Sign Type Code: 1.8 Sign Type: Terminal Building Announcer Refer design drawing: 1.8-S, 1.8-G	1.00	Job	750000.00	7,50,000.00
	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, eatherproofing techniques and materials shall be used.				
	Letter face				
	Providing and fixing blue translucent 040, 5mm thick acrylic box letter with 3mm thick walls 35 mm deep.				
	Back Channel				
	The channel letters would be made out of 1.2 mm thick GI Letter with spacer to receive the front acrylic and house the controller and LEDs. All the letters would be made in profile to achieve true right angle. All mounting would be done in true plumb and using templet, keeping the alignment of the letters in one level.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Lighting				
	All internal illumination shall be using LED of approved make 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. Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing. Job includes total letters of "BAGDOGRA AIRPORT" in Local Language(Bengali), Hindi and English.				
6.00	Sign Type Code: 1.9 Sign Type: Airport Map Refer design drawing: 1.9-S, 1.9-G	1.00	Each	85000.00	85,000.00
	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.				
	Sign Face				
	Providing and fixing sign face panel in 5mm thick white translucent 040 acrylic. Graphics – Plotter cut blackout vinyl blue -541c, translucent printed vinyl for text/Map and pasted over white translucent acrylic.				
	Sign Frame				
	Providing and fixing sign frame of 50mm wide PU Painted, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The panel should be made easily openable from back for maintenance.				
	Sign Structure				
	MS square post 75 x 75 x 2.5 mm and horizontal square sections 50 x 50 x 2 mm, 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 P.U. Painted to match RAL 9006 as specified and approved by the Engineer-In-charge. 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 slurry etc. required for fixing the sign in an external location.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Canopy :				
	Providing canopy of 150 mm depth of 2 mm thick over the entire signs. 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. 225x225mm size, 5 mm thick cover plate mounted in case the flooring is present.				
	Lighting				
	All internal illumination shall be using LED Lights of approved make 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. 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 signages. Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per design drawing.				
7.00	Sign Type Code: 2.1a Sign Type: Ceiling Hung Directional Sign Refer design drawing: 2.1a-S, 2.1a-G				
	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				
	Sign face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out 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.				
	Sign Frame				
	Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				
	Sign Structure				
	Providing and fixing of aluminium 25mm x 25mm x 1.5mm thick hollow sections for structure framework of sign frame.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Suspender				
	Providing and fixing Stainless steel 25 x 25mm, 1.5 mm thick Hollow sections (assuming typical length of 1 meter) mounted on slabs/beams/walls.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site.				
7.10	2.1a, Message-1, (Single/Double Sided)	48.00	Each	27000.00	12,96,000.00
7.20	2.1a, Message-2 (Single/Double Sided)	2.00	Each	35000.00	70,000.00
7.30	2.1a, Message-4 (Single/Double Sided)	2.00	Each	45000.00	90,000.00
8.00	Sign Type Code: 2.1b-2 Sign Type: Floor mounted directional sign with Map Refer design drawing: 2.1b-2-S, 2.1b-2-G	2.00	Each	145000.00	2,90,000.00
	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.				
	Sign face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out 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.				
	Sign Frame				
	Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Sign Structure				
	All structural members in SS square post 100 x 100 X 3 mm and horizontal cross tie member square sections 50 X 50 X 2mm, 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. 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. Providing and fixing of aluminium 25mm x 25mm x 1.5mm thick hollow sections for structure support frame work of sign frame.				
	Cover Plate				
	Providing and fixing of 300mm x 300mm x 5mm thick SS cover plate mounted on flooring.				
	Information Panel				
	Providing and fixing 50 mm wide Aluminium extrusion openable secure frames with printed graphic behind 4mm clear Polycarbonate.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site. 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..				
	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.				
	Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing.				
	2.1b-2, Message-5 (Single/Double Sided)				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
9.00	Sign Type Code: 2.2g-2 Sign Type: Boarding Gates - Wall Projected Refer design drawing: 2.2g-2-S, 2.2g-2-G	4.00	Each	35000.00	1,40,000.00
	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.				
	Sign face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out 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.				
	Sign Frame				
	Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site. The actual structural design of the sign for its stability shall be responsibility of the contractor. Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing. (Single/Double Sided)				
10.00	Sign Type Code: 2.2h (Type-2) Sign Type: Belt No. Sign Refer design drawing: 2.2h-S, 2.2h-G	3.00	Each	24500.00	73,500.00
	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				
	Sign Box				
	Providing and fixing sign box with laser cut Bent Fabrication in 5mm thick 040 acrylic (as specified) with pantone yellow C Vinyl pasted over acrylic. Block out vinyl for text 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.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Bottom panel				
	Bottom MS Panel powder coated in colour to match Vinyl Black of Pantone Black 6C.				
	Sign Structure : Type 2				
	All structural members in SS square post 75 x 75 x 2.5 mm (assuming typical length of 2.7 meter), brush finished. Base plate embedded below the floor finish and provided with 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 have closed with a 3 mm thick SS plate as specified and approved by the Engineer-In- charge. 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.				
	Lighting				
	All internal illumination shall be using LED strip Lights from of approved make 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.				
	Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing. (Single/Double Sided)				
11.00	Sign Type Code: 2.2J-1 Sign Type: Baggage Screening- Pole Refer design drawing: 2.2J-1-S, 2.2J-1-G	3.00	Each	25000.00	75,000.00
	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.				
	Sign Face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out vinyl shall match the specified colour (colour Pantone Black 6C) and vinyl for text Cyan Pantone 311C and printed vinyl media for airline logos as per graphics and of specified make duly approved by the Engineer-in-Charge.				
	Sign Frame:				
	Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Sign Structure				
	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. 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.				
	Cover Plate				
	Providing and fixing of 300mm x 300mm x 5mm thick SS cover plate mounted on flooring.				
	Lighting:				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site. The actual structural design of the sign for its stability shall be responsibility of the EPC contractor.				
	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.				
	Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing. (Single/Double Sided)				
12.00	Sign Type Code: 2.4a Sign Type: Utility Signs(Washroom/Drinking Water/Baby Care) Refer design drawing: 2.4a-S, 2.4a-G				
	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.				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Sign face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out 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.				
	Sign Frame				
	Providing and fixing sign frame 50mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site.				
12.10	2.4a (Type-1), Wall Projected (Double Side - Sign face in acrylic)	3.00	Each	15000.00	45,000.00
12.20	2.4a (Type-2), Wall mounted (Single side content - Sign Face: acrylic, and Back: 3mm ACP)	21.00	Each	15000.00	3,15,000.00
13.00	Sign Type Code: 2.4b Sign Type: Service Areas Refer design drawing: 2.4b-G	10.00	Each	15000.00	1,50,000.00
	Providing and fixing non-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.				
	Sign face				
	Digitally printed Graphics on vinyl pasted on 3mm thick black acrylic mounted on walls/claddings/ paneling's using VHB Tape.				
14.00	Sign Type Code: 2.4c Sign Type: Lift No. Sign Refer design drawing: 2.4c-S, 2.4c-G				
	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.				
	Sign face				
	Sign face shall be made in 5mm thick 040 white acrylic (as specified) having graphics pasted in Plotter cut Block out vinyl. The Plotter cut block out 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	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
	Sign Frame				
	Providing and fixing sign frame 25mm wide Powder coated, colour RAL 9006 aluminium extrusion with inbuilt frame to receive the sign face. The sign face shall be fixed to sign frame with VHB tape in one side and Hook & Loop tape from the other side so as the panel be easily openable for maintenance.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site.				
14.10	2.4c (Type 1), Wall Projected (Double Side - Sign face in acrylic)	4.00	Each	15000.00	60,000.00
14.20	2.4c (Type 2), Wall mounted (Single side content - Sign Face: acrylic, and Back: 3mm ACP)	2.00	Each	15000.00	30,000.00
15.00	Sign Type Code: 2.6a Sign Type: Emergency Direction Signs - Illuminated Refer design drawing: 2.6a-G				
	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.				
	Sign face				
	Sign face shall be made in 5 mm thick laminated acrylic (as specified) with graphics in white and green translucent vinyl on the inside face of the glass.				
	Sign Box				
	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 frosted glass at bottom and Mesh from inside on top for ventilation. Complete sign box including channel supports are to be powder coated to match RAL9006. Sign box flange receiving the sign face shall be provided with slots to receive the sign face.				
	Lighting				
	All internal illumination shall be using LED strip edge Lights of approved make 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 laid by Airport contractor at the site. Accessories: Providing and fixing all accessories such as thimbles, end connectors, nut-inserts, screws , rivets, bolts, washers, nuts, etc. complete as per drawing				

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
15.10	2.6a-1(d), Exit (Single/Double Sided)	1.00	Each	16000.00	16,000.00
15.20	2.6a-2, Emergency Exit (Single/Double Sided)	6.00	Each	17000.00	1,02,000.00
16.00	Sign Type Code: 2.9b Sign Type: Parking Announcer Sign- Portal Refer design drawing: 2.9b-S, 2.9b-G	1.00	Each	350000.00	3,50,000.00
	Providing and fixing Non-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.				
	Sign face				
	Providing and fixing sign face panels 3mm thick Aluminium sheet fabrication, Aluminium sheet fixed to horizontal structural truss. White retro-reflective vinyl pasted over edge to edge aluminium sheet. Graphics in plotter cut RAL 5013 exterior grade opaque vinyl pasted over white retroreflective vinyl.				
	Sign Frame (Spanning Truss): Providing and fixing sign frame (Horizontal Spanning truss) in M.S. square section hot dipped galvanized as per drawing. Frame to be directly fixed to the sign structure. Frame to receive the sign faces.				
	Sign Structure: Providing a Square Sign post of 200 x 200 mm, 5.4 mm thick MS hollow sections including welded Base plate in 8mm thick MS 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 be 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 as specified and approved by the Engineer-In-charge. 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 slurry etc. required for fixing the sign in an external location. The actual structural design of the sign for its stability shall be responsibility of the contractor. Spanning truss shall be designed for each Mounting square section span and the wind loads.				
	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.				
17.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
17.10	2 x 1.5 sq. mm + 1 x 1.5 sq. mm Earth wire	400.00	Metre	200.00	80,000.00
17.20	2 x 2.5 sq. mm + 1 x 2.5 sq. mm Earth wire	150.00	Metre	250.00	37,500.00
17.30	2 x 4 sq. mm + 1 x 4 sq. mm Earth wire	50.00	Metre	300.00	15,000.00

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
18.00	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
18.10	20 mm	400.00	Metre	300.00	1,20,000.00
18.20	25 mm	200.00	Metre	325.00	65,000.00
19.00	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. As required.	100.00	Each	250.00	25,000.00
20.00	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
20.10	6 way , Double door	4.00	Each	500.00	2,000.00
21.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
21.10	Single pole	24.00	Each	500.00	12,000.00
21.20	Single pole Neutral	4.00	Each	500.00	2,000.00
22.00	Providing & fixing of following suspenders for ceiling hung signboards, made of stainless steel square section to ensure a perfectly aligned and leveled signboards installation includes all work done on false ceiling like opening/dismantling/local cutting to pass the suspender and reinstalling/doing good/assembling the same after fixing with jointing connectors etc. suitable for mounted on slabs/beams/walls.				
22.10	Two pipe suspension of stainless steel square 25mm x 25mm x 1.5 mm hollow sections.	250.00	Metre	450.00	1,12,500.00
22.20	Single pipe suspension of stainless steel 100mm Dia x 3 mm hollow sections.	30.00	Metre	1500.00	45,000.00
23.00	Chase cutting of existing Granite/Tiles/Concrete floor of upto depth 75 mm and width suitable for supply & laying up to 25 mm electrical conduit with all types of accessories(viz. elbow, tee, straight socket etc.) and making good the same floor as before using in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including fixing of Granite/Tiles on surface as per site requirement with complete satisfaction of Engineer in-charge.	100.00	Metre	300.00	30,000.00
24.00	Excavation for foundation in soft soil including dressing of sides and ramming of bottoms, lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres.	10.00	Cu. Mtr.	2400.00	24,000.00
25.00	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) for foundation work including form work etc as required.	10.00	Cu. Mtr.	10000.00	1,00,000.00

Sl.No	Description of Item	Quantity	Unit	Rate (Rs.)	Amount (Rs.)
26.00	Providing and fixing of approved shade Aluminium Composite Panels (ACP) of exterior grade for cladding on fascia for external canopy cladding of solid / Metallic colours, including all necessary frame work and complete weather sealing. The composite panel should consist of 2.5mm thermoplastic core of LDPE sandwiched between 2 skins of 0.25mm thick aluminium sheet (alloy designation 310S) making a total panel thickness of 3mm. The surface will be furnished with coating on top sides and service coating on reverse side. Coatings shall conform to specifications of ECCA / AAMA.	100.00	Sq. Mtr.	3500.00	3,50,000.00
27.00	Dismantling of following size existing Signage Boards installed at terminal building and keeping the same in AAI store (within 50 Mtr. distance) as per site condition and as directed by Engineer-in-Charge.				
27.10	400mm x 400mm Size	19.00	Each	250.00	4,750.00
27.20	1700mm x 400mm Size	39.00	Each	300.00	11,700.00
27.30	3000mm x 1500mm Size	5.00	Each	500.00	2,500.00
Total Amount Rs.:					61,78,950.00

(Total Amount: Rupees Sixty One Lakhs Seventy Eight Thousand Nine Hundred and Fifty Only)

(Note: GST will be paid on production of actual tax invoice as per prevailing rates Govt. Of India)

 20/09/22

Asstt. Gen. Manager (Engg-Elect)
AAI, Bagdogra Airport
Bagdogra-734421