

GOVERNMENT OF TAMIL NADU
Department of Tourism
Project Management Unit, IDIPT-TN
Infrastructure Development Investment Program for Tourism
In Tamil Nadu
ADB LOAN No. 40648-037-IND

BIDDING DOCUMENT
For

Procurement of Goods

Supply and Installation of Retro Reflective Signage
Boards at 228 different tourist sites in all 32 district of
Tamil Nadu

Single-Stage: Two-Envelope
Bidding Procedure

Volume 2-Price Bid Documents

Issued on : 05.01.2018

Invitation for Bids No : 550/PMU/ADB/TECH/2017, **Date:** 22.12.2017

ICB No : IDIPT/TN/T4/ICB/02/2017

Purchaser : **The Project Director**
Project Management Unit
Infrastructure Development Investment Program for Tourism
In Tamil Nadu
Department of Tourism
Tamil Nadu Tourism Complex
2, Wallajah Road,
Chennai – 600 002, Tamil Nadu
Telephone: +91 -44-25333859
Email: tntourism.pmuadb@gmail.com

Country : **India**

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Bidding Forms

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Price Bid Submission Sheet

Note

The Bidder must accomplish the Price Bid Submission Sheet on its letterhead clearly showing the bidder's complete name and address.

Date:

ICB No.: IDIPT/TN/T4/ICB/02/2017

Invitation for Bid (IFB) No.: 550/PMU/ADB/TECH/2017 dated 22.12.2017

To:

The Project Director
 Project Management Unit
 Infrastructure Development Investment Program for Tourism,
 Tamil Nadu
 Department of Tourism
 Tamil Nadu Tourism Complex
 2, Wallajah Road,
 Chennai – 600 002, Tamil Nadu
 India

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including the Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the delivery schedule specified in Section 6 (Schedule of Supply), the following Goods and Related Services:
Supply and Installation of Retro Reflective Signage Boards at 228 different tourist sites in all 32 district of Tamil Nadu
- (c) The total price of our Bid, excluding any discounts offered in item (d) below, is

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]

- (d) The discounts offered and the methodology for their application are as follows:

Discounts: If our Bid is accepted, the following discounts shall apply: [specify in detail each discount offered and the specific item of the Schedule of Supply to which it applies]

Methodology of Application of the Discounts: The discounts shall be applied using the following method: [specify in detail the method that shall be used to apply the discounts]

- (e) Our bid shall be valid for a period of [insert validity period as specified in ITB 20.1 of the BDS] days from the date fixed for the submission deadline in accordance with the Bidding Documents,

and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

(f) If our Bid is accepted, we commit to obtain a Performance Security in the amount of [specify a figure between 5% and 10%, which should be consistent with that of SCC 18.1] percent of the Contract Price for the due performance of the Contract.

(g) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:¹

Name of Recipient	Address	Reason	Amount
_____	_____	_____	_____
_____	_____	_____	_____

(h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed.

(i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

(j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name _____

In the capacity of _____

Signed _____

Duly authorized to sign the Bid for and on behalf of _____

Date _____

¹ If none has been paid or is to be paid, indicate "None."

Preamble to Price Schedule

I) General

Introduction

The Infrastructure Development Investment Program for Tourism [IDIPT] envisages an environmentally and culturally sustainable and socially inclusive tourism development across four states of India, viz Himachal Pradesh, Punjab, Uttarakhand and Tamil Nadu. It is developed and funded by the Asian Development Bank [ADB] through Ministry of Tourism, Government of India [GoI], and the state level executing agency being the respective Departments of Tourism of the participating four states. The IDIPT uses a **sector loan approach** through a **multi-tranche financing facility** in four tranches planned from 2011-2020. The expected impact of the Project in the four States is sustainable and inclusive tourism development in priority State tourism sub circuits.

The Infrastructure Development Investment Programme for Tourism in Tamil Nadu – Project 2 was launched with the assistance of ADB on 15.12.2011 at a cost of Rs.450 crores. Out of Rs.450 Crores, ADB's share is Rs.315 crore (i.e.70%) and the State Government is financing is Rs.135 crore (i.e.30%) The closing date of the project is 30.6.2020. A list of sub-projects at an approximate cost of Rs.403.0 crores for Tranche-IV was prepared and placed before the 3rd State Level Steering Committee meeting of GOTN under the chairmanship of Hon'ble Minister for Tourism, Tamil Nadu on 23.12.2015. In accordance with the decision of 3rd SLSC meeting and based on the suggestion by the ADB during Project Review Mission, the sub-projects at a cost of Rs.403.0 crores were considered in the 4th SLSC meeting of Government of Tamil Nadu.

The sub-projects at a cost of Rs.403.0 crores was prepared and placed before the 4th State Level Steering Committee meeting held on 30.11.2016. **For Supply and Installation of Retro Reflective Signage Boards at 228 different tourist sites in all 32 district of Tamil Nadu is taken as one of the sub projects at a cost of Rs 24.83 crores** and DPR has been prepared. The actual cost of estimates works out to Rs. 24.83 Crores as per actual need and based on the site condition. As more demand was received from various departments, the present proposal is considered on actual field visit and providing Signage Boards to the nearby places only around the tourist spot /location. It is now proposed to provide in all 32 districts of Tamil Nadu of tourist important and the actual cost of estimate now works out to **Rs.24.83 Crores**

1.Scope of work:

The scope of work involves Provision of improved basic urban infrastructure and services at tourist destinations and attractions for the State of Tamil Nadu thereby promoting sustainable economic growth through Tourism. Provision of Supply and Installation of Retro Reflective Signage Boards is for the convenience of the tourists/pilgrims to identify the tourist spots and for easy approach to the site.

2.Project Area:

32 districts are proposed to be covered under the scope of this contract for the Supply and Installation of Retro Reflective Signage Boards.

The Conditions of Contract, Specification and Drawings are to be read in conjunction with the Bill of Quantities Schedule of Prices and reference shall be made to these documents for detailed descriptions,

which are not repeated in the Bill of Quantities.

The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the contractor and verified by the Engineer and valued at the rates and prices tendered in the priced bill of quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the contract.

Except where a provision is made under a separate item in the Bill of Quantities the amounts inserted in the Bill of Quantities shall be the full inclusive value of the work described under the respective items and includes constructional plant, labour supervision, materials, erection, defect liability, profit, taxes and duties together with all general risks, liabilities and obligations set forth or implied in the Contract.

A rate or price shall be entered against each item in Bill of Quantities Items against which no amount is entered will be deemed to be covered by the other amounts and rates in the Schedule.

The whole cost of complying with the provisions of the contract shall be included in the items provided in the priced bill of quantities, and where no items are provided the cost shall be deemed to be distributed among the rates and prices entered for the related items of work.

Where an item is provided for the design of an element of the Plant, the amount entered shall include all costs and expenses which may be required to complete the design of that element including obtaining the approval of the Engineer to drawings and calculations where required

Where an item is provided for the supply and installation of Plant or materials the amount entered shall include all costs and expenses necessary prior to incorporating such items in the Works and shall include for:

- 1) Design of that element including obtaining the Engineers approval of drawings or calculations as may be specified or required;
- 2) Manufacture of the plant including the Engineer's approval of factory tests and certifications as may be specified or required;
- 3) Delivery to and offloading at the site including the Engineers approval to or approval of delivery inspection certificates as may be specified or required; and steps between the above activities.

Where an item is provided for an element of civil works the amount entered shall include for:

- a) the site investigations for and the design of that element including obtaining the Engineer's approval of drawing and calculations as may be specified or required;
- b) the construction of that element;
- c) the additional civil works needed to install, fit and fix plant into that element;
- d) The testing and setting to work of that element; and steps between the above.

Where an item is provided for modification of existing plant or equipment, or pipe work the amount entered shall include removing, cleaning, storing, modifying and reinstating as specified, setting to work and all other incidental work. The amount shall also include the supply and erection of additional equipment or pipeline where required, to complete the installation.

Where the supply or erection of any necessary equipment is not scheduled separately for payment, it shall be deemed to have been included under other items in the Bill of Quantities.

All costs associated with testing and inspection at manufacturers' works, individual tests (pre commissioning tests) and Tests on Completion shall be deemed to be included in the items for supply and installation.

All costs associated with the provision of samples or appurtenances, materials and workmanship and all costs incurred in supplying manufacturer's test certificates and in the provision of appliances, facilities and labour for testing, including both on and off Site, to demonstrate that material and workmanship comply with the Specification shall be deemed to be included in the items for supply and installation.

All costs associated with the provision of samples, tests and certificates for material and workmanship for civil works, including provision of laboratory supervision, labour, facilities and transport both on and off site, to demonstrate that materials and workmanship comply with the Specification shall be deemed to be included in the items for civil Works.

Contractor will have to provide all assistance to Engineer or Engineers representative for taking all measurements of the works. The accepted measurement by contractor and Engineer shall be the basis of submission of bill by contractor. These joint measurements have to be attached with each bill by the contractor

3. Inspection of Site

Bidder is requested to visit the site to acquaint themselves with all existing conditions, and with the nature and extent of work to be done under this contract as no extras will be allowed on the plea of want of information due to neglect of their part in this regard.

4. Temporary Installation:

The Contractor shall provide and maintain temporary services necessary for the execution of the Works under the Contract. The Contractor shall make applications and install such services in accordance with the regulations and requirements of the relevant authorities. The Contractor shall be responsible for all costs and charges in connection with the installation of temporary services and maintenance of such services. On completion of the Works, the Contractor shall disconnect such services as directed by the Engineer Incharge.

5. Power

The Contractor shall apply and pay for the required power and install temporary electrical installation for the Works, site office, Engineer's and Consultant's Offices, Stores, labour huts, yards and site lighting and testing for mechanical and electrical services done by others. Alternative arrangements shall be made available by the Contractor at the site for use in an emergency and or during power failures. The cost of supplying, installing running and maintaining the alternative arrangements shall be borne by the Contractor

6. Materials

All materials, equipment supplied shall be new, unused without any defects.

All materials, equipment and accessories stated herein shall be the best of their respective kind and shall comply with the requirements of the relevant Standards, Specifications or equivalent where such exists. In

all cases of permanent work specifications, model nos., makes etc., and other technical data shall be approved by the Engineer before an order is placed, and all materials, equipment, accessories and spares etc., supplied shall correspond in quality with the approved samples. The Engineer will exercise the right to reject all such items not complying in quality with the standard of the approved items and all costs incurred by this rejection shall be borne by the Contractor. All such rejected items shall be removed from the site. The Contractor shall provide the necessary details to the Engineer regarding the dates and sources of obtaining such items.

7.Excavation:

The excavation under all classifications in areas in trenches or in pits shall be carried out systematically. Cutting shall be done from top to bottom and not under pining or under cutting will be allowed. The bottom and sides of excavation shall be dressed to proper level, slopes, steps, camber etc. by removing high spots and ramming thoroughly as directed by the Engineer- in-charge.

All the excavation shall be carried out strictly to the dimensions given in the drawing. The width shall generally be of the width of mud mat concrete and depth as shown in drawing or as directed by the Engineer-in-charge, according to availability of the desired bearing capacity of soil below. Any excavation if taken below the specified depths and levels, the contractor shall at his own cost fill up such over cut to the specified level as directed by the Engineer Incharge.

After the excavation is completed, the contractor shall notify the Engineer-in-charge to that effect and no further work shall be taken up until the Engineer-in-charge has approved the depth and dimensions and also the nature of foundation materials, levels and measurements shall also be recorded prior to taking up any further work.

The item for excavation also includes dewatering and shoring wherever required and no separate payment shall be made in respect of dewatering and shoring.

8.Shoring: Unless separately provided for in the schedule of quantities, the quoted rate for excavation shall include excavation of slopes to prevent falling in soil by providing and / or fixing, maintaining and removing of shoring, bracing etc. The contractor would be responsible for the design of shoring for proper retaining of sides of trenches, pits etc. with due consideration to the traffic, superimposed loads etc. shoring shall be of sufficient strength to resist the pressure and ensure safety from slips and to prevent damage to work and property and injury to persons. It shall be removed once the work is over with the instruction given by the Engineer Incharge.

- 1) Any material obtained from the excavation which in the opinion of the Engineer-in- charge is useful, shall be stacked separately in regular stacks as directed by the Engineer-in- charge and shall be the property of the Government.
- 2) All materials excavated will remain the property of the Department. Rate for excavation includes sorting out of the useful materials and stacking them separately as directed within the specific lead. Material suitable and useful for backfilling or there use shall be stacked in convenient place but not in such a way as to obstruct free movement of materials, workers and vehicles or encroach on the area required for constructional purposes. It shall be used to the extent required to completely backfill the structure to original ground level. Materials not useful in anyway shall be disposed off as directed by the Engineer Incharge. The site shall be left clean of all debris and leveled on completion.

9. Backfilling in sides of Foundations, Plinth, Under Floor etc:

The backfilling shall be done after the concrete or masonry has fully set and shall be done in such a way as not to cause under-thrust on any part of the structure. Where suitable excavated material is to be used for backfilling, it shall be brought from the place where it was temporarily deposited and shall be used in backfilling. The scope of work for backfilling/ filling in foundation, plinth, under floors etc. shall include filling for all the buildings covered under the contract. Whenever excess excavated material is available at one site the same may be conveyed to another site where ever filling is required.

Final site leveling after completion of works shall not be measured as separate item and deemed to be included in the item of excavation.

All timber shoring and form work left in the trenches, pits, floors etc. shall be removed after their necessity ceases and trash of any sort shall be cleared out from the excavation. All the space between foundation masonry or concrete and the sides of excavation shall be backfilled properly as per specification and as directed by the Engineer Incharge to the original surface with approved materials

No separate provision made for safety measures like barricading, sign boards, traffic control measures etc, during excavation The safety Measures are to be followed as per specifications and or as per site requirements in consultation with the Engineer.

No extra payment shall be made for reinstatement necessary due to his work outside the payment trench width. Contractor has to rectify the extra excavated surface at his own cost

Bedding shall be done with available excavated materials or imported from nearby excavated trenches. No separate payment shall be made against the bedding item. The supply rate for granular material for bedding procured from quarry sites/borrow areas shall be paid separately as mentioned in the bill of quantities

10. Concrete

The concrete used throughout this construction shall conform to the requirements stated in the Specifications. Unless otherwise approved by the engineer ready mixed concrete from an approved manufacturer shall be used in the work.

Ready mixed concrete used shall conform to relevant specification provisions.

Formwork and necessary reinforcement shall be priced with concrete if separate items are not provided for such in the Bills of Quantities. Rates for concrete shall include for the following unless measured separately:-

- 1) Obtaining ready mix concrete, where necessary, as per specifications, and obtaining test report from the manufacturer.
- 2) Transporting, admixtures, handling, pumping / hoisting and placing at any height or depth.
- 3) Packing and tamping around reinforcement, including vibrating.
- 4) Mixing, hoisting / lowering, placing in position and packing around reinforcements, site mixed concrete.
- 5) Vibrating and curing as specified.
- 6) All necessary stop boards, construction joints etc.

- 7) Finishing to slopes and falls and cross falls prepare surface ready for screed or paving where necessary including cutting to sizes and temporary supports to form necessary grooves.
- 8) Water bars / water stops where necessary.
- 9) Making good after removal of form work.
- 10) Making provisions, in concrete to fix any fixtures required under the work.
- 11) Making provisions, leaving openings, sleeves for all pipe work and making good around openings.
- 12) Rates for plain concrete blinding beds shall include for any necessary formwork at edges for the extra width of concrete which may be required in lieu.
- 13) Concrete strength testing as specified.
- 14) Expansion joints as required or as shown in the drawings / as per the specifications

11. Reinforcement

Reinforcement and all works in connection therewith shall be measured as the calculated weight of reinforcement detailed on the drawings or otherwise specified, and for this purpose the weight of reinforcement shall be taken as 0.00785kg/m for each mm² of nominal cross-sectional area and in metric tonne.

No measurement will be made in respect of any laps, chairs and pins placed in the reinforcement. The quantity to be measured and paid for these items shall not include wastage in cutting. Only steel actually installed and placed in position shall be paid. No separate payment shall be made for binding wire or tack welding in lieu of binding.

12. Structural Steel Work

Items for structural steel work shall include for the manufacture, erection and fixing in the works by number of units, by length, or by weight as indicated in the Bill of Quantities.

No separate measurement for payment shall be made in respect of any site welding, bolts or either fixing devises, grout or bedding materials unless separate items are expressly provided in the Bill of Quantities.

Rate for Formwork shall include for:-

- 1) Fabricating, setting up and erection at any height or depth and striking off and cleaning, preparing for reuse and removing of formwork;
- 2) All necessary props, joists, struts etc., incidental items and materials such as nails, screws anchors hooks etc for formwork at any level, including additional propping, strutting and supporting decks;
- 3) Formwork in narrow widths and small quantities; for setting up, strutting and supporting at any height;
- 4) Unrecoverable formwork;
- 5) Coating with form oil, sprayed plastics or lining;
- 6) Rubbing down and making concrete surface good after removal of formwork;
- 7) Sealing of joints to avoid leaking of cement grouting;
- 8) Cleaning the surface before concreting (removing dirt, saw dust etc.)

13. Painting:

- 1) All paint material shall be of quality acceptable to the Architect and shall be from a manufacturer approved by the Engineer.
- 2) All surfaces to receive paint shall be well cleaned and smoothed as specified and the prepared surface shall be approved by the Engineer before applying paint.
- 3) Cavities and uneven surfaces in plastered areas shall be filled with gypsum or other suitable approved filler material and allowed to set, and sand papered to give a smooth and even surface.

Rates for painting shall include for:-

- 1) All necessary scaffolding work including supply, erection and dismantling;
- 2) Preparation of surfaces, cleaning down;
- 3) Smoothing, knotting, stopping etc.;
- 4) Protecting floors, fittings etc.;
- 5) Removing and replacing door and window furniture and cleaning upon completion;
- 6) Providing samples and specification of all paints to be used in the works;
- 7) Preparation of approved plastered wall surfaces before applying paint;

14. Site Protection:

The Contractor shall provide all necessary fencing, hoardings, watching and lighting for the security of site and safeguarding the Works. The shelters, guard house and other facilities to be provided for the watchmen to do their duty in an efficient manner. Altering shifting and adapting same from time to time shall also be the responsibility of the Contractor. All costs in connection with this shall be borne by the Contractor

15. Daily Returns

If required by the Engineer Incharge, the Contractor shall furnish 12 noon on every working day the following daily returns.

A list of the labour employed on the previous day specifying the number employed, and out turn achieved
Details of construction equipment deployed for the work.

Particulars of all materials and goods delivered off-site and on-site.

16. Monthly Progress Report

- 1) The Contractor shall submit to the Engineer not later than the 5th working day of every month a Progress Report for the previous month which shall include the following items and information:

- 2) The marked Programme submitted at the previous Monthly Site Progress Meeting amended (if necessary) to indicate agreed revisions
- 3) Summary of construction Plant on-site and off-site including dates of arrival and departure of items.
- 4) Summary of principal materials and manufacturers items placed on order and delivered to the sites.
- 5) Issues that are to be addressed by the contractor for the timely completion of work, the issues which requires Employer' intervention for settling the issue

(II). AS BUILT DRAWINGS

- 1) Unless otherwise specified the Contractor shall deliver to the Engineer two sets of hard copies to appropriate scale and on appropriate size paper, and one set of AutoCAD compatible soft copy in a compact disk.
- 2) Drawings of the buildings site work such as, paving, fencing, drainage, electrical ducts, water sewerage system and all other services.
- 3) All drawings, documents and manuals shall be to a standard format. All drawings shall be to the size required by Engineer.
- 4) The Bid shall be deemed to include the cost of the preparation, supply and delivery of all drawings, instruction manuals, transparent copies on polyester and information and copies thereof which the Contractor is required to provide under the terms of the Contract

(III) Provisional Sum, Contingencies and Taxes

- 1) Provision has made in the Bill of Quantities for contingencies and amount payable to line department for shifting of utility services such as shifting of water supply pipeline, telephone / power supply cable for permanent restoration of National Highways, State Highways and PWD roads. Permanent restoration shall be done by concerned department and paid from provisional sum. The identification and permanent shifting of existing utilities namely water supply, sewerage, electricity, and telephone cable is the responsibility of the contractor and the cost towards shifting of utilities shall be borne by the Employer (for permanent shifting only) under the head of provisional sum. Temporary shifting of utilities is the responsibility of the contractor and no extra cost shall be paid against such works. The amount under provisional sum is fixed and the bidder shall not quote tender premium for this provision
- 2) Provisional sum” and/or “contingencies” means a sum included in the Contract and so designated in the execution of any part of the Works or for the supply of goods, materials, Plant or services, or for contingencies, which sum may be used, in whole or in part, or not at all, on the instructions of the Engineer. The Contractor shall be entitled to only such amount in respect of the work, supply or contingencies to which Provisional Sums relate as the Engineer shall determine in accordance with this Clause .The Engineer shall notify the Contractor of any determination made under this clause, with prior consent of the Employer.

- 3) In respect of every Provisional Sum and/or “contingencies” the Engineer shall have authority to issue instructions for the execution of work or the supply of, materials, Plant Sums or services by the Contractor, in which case the Contractor shall be entitled to an amount equal to the value thereof determined in accordance with Clause 15.
- 4) The Contractor shall produce to the Engineer all quotations, invoice, vouchers and accounts or receipts in connection with expenditure in respect of Provisional Sums, except where work is valued in accordance with rates or prices set out in the Tender.
- 5) Provisional sums provided in the bill of quantities includes **7% towards cost of escalation** and **10% towards unforeseen item of works.**
- 6) The rate for each item of works mentioned in the bill of quantities does not include 12% GST (CGST = 6% SGST=6%) and hence it is shown separately in the bill of quantities as GST and the contractor requested to quote GST Separately for each item of works based on the basic rate.

Price Schedule

Government of Tamilnadu, Department of Tourism										
Infrastructure Development Investment Programme For Tourism in TamilNadu (Tranche - 4)										
Supply and Installation of Retro Reflective Signage Boards at 228 different tourist sites in all 32 district of Tamil Nadu										
Bid Invitation No: 550/PMU/ADB/TECH/2017 dated 22.12.2017										
Contract Package No: IDIPT/TN/T4/ICB/02/2017 Name of the Bidder..... Page:.....										
Price Schedule and related services to be offered from outside and within The Purchaser's Country										
Item No	Description of Work	Country of origin	Quantity in Unit of Measurement		(a) Foreign Currency	(b) Local Currency	Taxes & Duties	Amount in Words \$/INR	(a) Foreign Currency \$	(b) Local Currency INR
			Qty	Units						
1	2	3	4	5	6	7	8	9	10	11
								((6 or 7)+ 8)	(4X9)	(4X9)
1	<p>WAY FINDING SIGNS(SHOULDER MOUNTED)/TOURIST INFORMATION SIGNS</p> <p>Manufacturing, Supplying & fixing of the following item complete: The vertical support post for sign boards is made of 73.03mm outer dia, 2.11mm thick stainless steel pipe (304 grade) to a height of 3900mm above ground level firmly fixed to the ground by means of properly designed depth of foundation with M15 grade cement concrete 45cmX45cmX60cm complete. Retro-Reflective Way Finding Sign Boards of Size 1800mm X 1220mm made out of wide angle cube corner microprismatic grade sheeting conforming to Type XI standards of IRC 67-2012 & ASTM D 4956-09 Specifications and fixed over 2mm thick aluminum Sheet & back support frame of stainless steel of size 15mmx20mm, 1.2mm thick (304 grade) supported by 38.1mm OD, 1.2mm thick SS pipe (304 grade) all around and gusset plate of mild steel of size 100mm wide and 16mm thick shall be provided. The vertical cross bracing to be provided wherever necessary. Colour:The background colour as per tourism standard of retro reflective sheet material shall be in Green,Brown and text shall be white. The lettering and pictogram/symbols shall confirm the IRC 67-2012 standards. The background colour and lettering size with matter to be displayed should be approved by executing agency before placing in position. Warrant and Durability:As per clause 6.9 IRC 67-2012,both the screen printed area,cut-out sheeting and cut-out durable transparent overlay flim shall be covered under the Ten (10) years Warranty issued by the sheeting manufacturer. A certified copy of three(3) years outdoor weather exposure report from Govt Approved test Lab for the Reflective Sheeting offered shall be submitted by the bidder. Foundation & Structural details shall adhere to the specification attached in the "Signage Drawing - A" including the cost of materials, labour charges, transportation, installation etc. Complete as per relevant IRC,ASTM and BIS specifications and departmental guidelines and specifications. N.B:One/Two prefabricated model to be got approved before fixing in position by the executing agency(PD/PIU).</p>		458	Nos.						

Item No	Description of Work	Country of origin	Quantity in Unit of Measurement		(a) Foreign Currency	(b) Local Currency	Taxes & Duties	Amount in Words \$/INR	(a) Foreign Currency \$	(b) Local Currency INR
			Qty	Units	Unit Price			Unit price	Total price per item	
1	2	3	4	5	6	7	8	9	10	11
2	<p>OVERHEAD SIGN (CANTILEVER TYPE) Manufacturing, Supplying & fixing of the following items complete: The Vertical support post for the installation of overhead sign cantilever is made of 323mm outer dia, 8mm thick MS pipe to a height of 8700mm above ground level and the depth of pipe below ground level has to be taken suitably to suit the soil conditions. The vertical member supporting the cantilever projection frame of 5500mm long with a height of 1500mm made of 114.3mm outer dia, 4.5mm thick MS pipe for horizontal member and 76.1mm outer dia, 3.2mm thick MS pipe for vertical member. Overhead Information sign (Cantilever) board is of size 5400mmX2100mm on both the sides made out of cube corner micro Prismatic grade retro reflective sheeting conforming to Type XI standards of IRC 67-2012 and ASTM D 4956-09 fully covered over 2mm thick aluminium sheeting fixed over a back support frame that shall be MS angle of size 50mmx50mmx6mm. The Vertical Cross bracing to be provided wherever necessary. Colour:The background colour as per tourism standard of retro reflective sheet material shall be in Green,Brown and text shall be white. The lettering and pictogram/symbols shall conform the IRC 67-2012 standards. The background colour and lettering size with matter to be displayed should be approved by executing agency before placing in position. Warrant and Durability:As per clause 6.9 IRC 67-2012,both the screen printed area,cut-out sheeting and cut-out durable transparent overlay flim shall be covered under the Ten (10) years Warranty issued by the sheeting manufacturer. A certified copy of three(3) years outdoor weather exposure report from Govt Approved test Lab for the Reflective Sheeting offered shall be submitted by the bidder. Foundation & Structural details shall adhere to the specification attached in the "Signage Drawing - B" including the cost of materials, labour charges, transportation, installation etc. Complete as per relevant IRC,ASTM and BIS specifications and departmental guidelines and specifications. N.B:One/Two prefabricated model to be got approved before fixing in position by the executing agency(PD/PIU).</p>		565	Nos.						

Item No	Description of Work	Country of origin	Quantity in Unit of Measurement		(a) Foreign Currency	(b) Local Currency	Taxes & Duties	Amount in Words \$/INR	(a) Foreign Currency \$	(b) Local Currency INR
			Qty	Units	Unit Price			Unit price	Total price per item	
1	2	3	4	5	6	7	8	9	10	11
3	<p>Tourist Map Sign Board Manufacturing, Supplying & fixing of the following items complete:</p> <p>The Vertical support post for the installation of Tourist Map Sign is made of 193.7M outer dia MS pipe(at 25.1kg/m) to a height of 5100mm above road level and the depth of pipe below ground level has to be taken suitably to suit the soil conditions. The vertical member supporting the Horizontal frame of 4000mm long with made of 42.4MM outer dia MS pipe(at 3.1kg/m) .Tourist Map Sign board is of size 4000 mm X 3000 mm on one the side made out of cube corner micro Prismatic grade retro reflective sheeting conforming to Type XI standards of IRC 67-2012 andASTM D4956 09 fully covered over 2mm thick aluminium sheet mounted on 50X50X6mm MS angle around with cross bracing to be provided wherever necessary. The background colour of retro reflective material in blue and text in white. The lettering and pictogram/symbols confirm the IRC 67-2012 standards.RCC foundation as indicated in the drawing may be followed including necessary earthwork excavation. Two(2) coats of approved colour synthetic enamel painting to the steel surfaces. Color:The background colour as per tourism standard of retro reflective sheet material shall be in Green,Brown and text shall be white. The lettering and pictogram/symbols shall confirm the IRC 67-2012 standards.The background colour and lettering size with matter to be displayed should be approved by executing agency before placing in position. Warrant and Durability:As per clause 6.9 IRC 67-2012,both the screen printed area,cut-out sheeting and cut-out durable transparent overlay flim shall be covered under the Ten (10) years Warranty issued by the sheeting manufacturer. A certified copy of three(3) years outdoor weather exposure report from Govt Approved test Lab for the Reflective Sheeting offered shall be submitted by the bidder. Foundation & Structural details shall adhere to the specification attached in the "Signage Drawing - C" including the cost of materials, labour charges, transportation, installation etc. Complete as per relevant IRC,ASTM and BIS specifications and departmental guidelines and specifications. N.B:One/Two prefabricated model to be got approved before fixing in position by the executing agency(PD/PIU).</p>		182	Nos.						

Item No	Description of Work	Country of origin	Quantity in Unit of Measurement		(a) Foreign Currency	(b) Local Currency	Taxes & Duties	Amount in Words \$/INR	(a) Foreign Currency \$	(b) Local Currency INR
			Qty	Units	Unit Price			Unit price	Total price per item	
1	2	3	4	5	6	7	8	9	10	11
4	<p>SINGLE ARROW SIGN BOARD</p> <p>Manufacturing, Supplying & Fixing of the following items complete: Two(2) numbers of vertical support post of size 73.03mm OuterDia, 2.11mm thick SS Pipe (304 Grade) to a height of 900mm above ground level firmly fixed to the ground as per 'Signage Drawing - D'. The foundation is of M15 grade cement concrete of size 300 mmx300 mmx450 mm. Retro-Reflective Road Name sign board Single Arrow size 1.0mx0.5m made out of wide angle cube corner microprismatic grade retro reflective sheeting conforming to Type XI standards of IRC 67:2012 & ASTM D 4956-09 specifications and fixed over 2mm thick aluminium sheet. The back support frame of size 15mmx20mm, 1.2mm thick stainless steel (304 Grade) supported by 38.1mm Outer Dia, 1.2mm thick stainless steel pipe (304 Grade) all around is firmly fixed to the vertical post and Gusset plate of mild steel of size 100mm wide and 16mm thick shall be provided. The Vertical Cross bracing to be provided wherever necessary.</p> <p>Colour:The background colour as per tourism standard of retro reflective sheet material shall be in Green,Brown and text shall be white. The lettering and pictogram/symbols shall confirm the IRC 67-2012 standards. The background colour and lettering size with matter to be displayed should be approved by executing agency before placing in position.</p> <p>Warrant and Durability:As per clause 6.9 IRC 67-2012,both the screen printed area,cut-out sheeting and cut-out durable transparent overlay film shall be covered under the Ten (10) years Warranty issued by the sheeting manufacturer. A certified copy of three(3) years outdoor weather exposure report from Govt Approved test Lab for the Reflective Sheeting offered shall be submitted by the bidder.</p> <p>Foundation & Structural details shall adhere to the specification attached in the "Signage Drawing - D" including the cost of materials, labour charges, transportation, installation etc. Complete as per relevant IRC,ASTM and BIS specifications and departmental guidelines and specifications.</p> <p>N.B:One/Two prefabricated model to be got approved before fixing in position by the executing agency(PD/PIU).</p>		351	Nos.						

Item No	Description of Work	Country of origin	Quantity in Unit of Measurement		(a) Foreign Currency	(b) Local Currency	Taxes & Duties	Amount in Words \$/INR	(a) Foreign Currency \$	(b) Local Currency INR
			Qty	Units	Unit Price			Unit price	Total price per item	
1	2	3	4	5	6	7	8	9	10	11
5	<p>DOUBLE ARROW SIGN BOARD Manufacturing, Supplying & Fixing of the following items complete: Two(2) numbers of vertical support post of size 73.03mm Outer Dia, 2.11mm thick SS Pipe (304 Grade) to a height of 900mm above ground level firmly fixed to the ground as per 'Signage Drawing - E'. The foundation is of M15 grade cement concrete of size 300 mmx300 mmx450 mm. Retro-Reflective Road Name sign board Double Arrow size 1.3mx0.5m made out of wide angle cube corner microprismatic grade retro reflective sheeting conforming to Type XI standards of IRC 67:2012 & ASTM D4956-09 specifications and fixed over 2mm thick aluminium sheet. The back support frame of size 15mmx20mm, 1.2mm thick stainless steel (304 Grade) supported by 38.1mm Outer Dia, 1.2mm thick stainless steel pipe (304 Grade) all around is firmly fixed to the vertical post and Gusset plate of mild steel of size 100mm wide and 16mm thick shall be provided. The Vertical Cross bracing to be provided wherever necessary. Colour: The back ground colour of retroreflective material shall be in blue and text shall be in white. The lettering and pictogram/symbols shall confirm the IRC 67-2012 standards. The background colour as per tourism standard of retro reflective sheet material shall be in Green,Brown and text shall be white. The lettering and pictogram/symbols shall confirm the IRC 67-2012 standards. The background colour and lettering size with matter to be displayed should be approved by executing agency before placing in position. Warrant and Durability:As per clause 6.9 IRC 67-2012,both the screen printed area,cut-out sheeting and cut-out durable transparent overlay film shall be covered under the Ten (10) years Warranty issued by the sheeting manufacturer. A certified copy of three(3) years outdoor weather exposure report from Govt Approved test Lab for the Reflective Sheeting offered shall be submitted by the bidder. Foundation & Structural details shall adhere to the specification attached in the "Signage Drawing - E" including the cost of materials, labour charges, transportation, installation etc. Complete as per relevant IRC,ASTM and BIS specifications and departmental guidelines and specifications. N.B:One/Two prefabricated model to be got approved before fixing in position by the executing agency(PD/PIU).</p>		76	Nos.						
6	Provisional Sum					36073119				36073119
	Grand Total									
Bidders Quoted Rate in words.....										