

Advance information for Prospective Bidders for Electrical and Mechanical Works for Contract Package EM P-4, Rewari - Vadodara Section, W-DFC.

Country : India
Loan Agreement No. : IN – P209

Name of the Project : **Design, Supply, Installation, Testing and Commissioning of 2 x 25 kV Traction Power, Power Supply, Traction Sub-Stations, Auxiliary Sub-Stations, Switching Stations, Auto Transformer Stations and SCADA System on Design-Build Lump Sum Price Basis for Rewari-Vadodara Section (Approx. 920 kms) of Western Dedicated Freight Corridor.-**

The construction of Dedicated Freight Corridors from Jawaharlal Nehru Port at Nhava Sheva (JNPT), Mumbai to Tughlakabad/ Dadri near Delhi is being undertaken under Japanese ODA loan. This Corridor of DFC Project (Western) covers a length of 1,483 RKM. Western Corridor is planned to be implemented in two Phases. The first phase envisages construction of about 920 RKM between Makarpura (Vadodara) in Gujarat and Rewari (Haryana).

DFCC, is planning to invite proposals from prospective Bidders for Design, Procurement, Construction, Testing and Commissioning of Electrification (2 x 25 kV, 50 Hz), including TSS, Switching Stations and SCADA on Design Build (Lump Sum) Basis for WDFC, Phase-I through single stage two envelope bidding process.

Before inviting bids for the above works, the Dedicated Freight Corridor Corporation Ltd proposes to make the Bidders acquainted with broad details of the work proposed under this contract and salient features of the section and eligibility conditions applicable for projects funded by JICA. The details may be seen on DFCCIL website www.dfccil.org

1. As per the Japanese ODA (STEP) loan guidelines, eligible nationality of the applicant and all partners constituting the Applicant/ Bidders shall be the following :-
 - a) Japan in case of the Prime Contractor ;
 - b) All countries and areas in the case of sub-contractor(s).

Further, with regard to the above, in case where the prime contractor is a joint venture, such joint venture will be eligible provided that the nationality of the lead partner is Japan, the nationality of the other partners is Japan and/or India and that the total share of work of Japanese partners in the joint venture is more than fifty percent (50%) of the contract amount.

2. The bidders shall not have a conflict of interest. All bidders found to have conflict of interest shall not be eligible for bidding. A bidder that has been determined to ineligible by JICA shall not be awarded a contract.
3. Procurement of the following components manufactured in Japan is Identified under this Package: to meet the requirement of loan condition under STEP loan
 - Main Transformers and Auto Transformers required for the Permanent Works under this Contract
 - Other Components – Contact Wire and Catenary Wire required for Permanent Works under this Contract to meet the required percentage of STEP Component.

4. Major features of this Package-4 (EMP-4) are tabulated below:-

| Sl. No. | Features | |
|---------|--|---|
| 1 | Nominal gauge | 1676 mm |
| 2 | Maximum horizontal curve | 2.5 Degree Curve (Min. radius of curve 700 mtr) |
| 3 | Maximum track super elevation | 140 mm |
| 4 | Axle Load | 25 tonne |
| 5 | Continuous Power of locomotive | up to 7,000 kW |
| 6 | Maximum Operating Speed | 100 kmph |
| 7 | Maximum speed capability of locomotive | 120 kmph |
| 8 | Steepest gradient | 1 in 200 |
| 9 | Maximum trailing Load | 13,000 tonnes (double haul) |
| 10 | Dynamic augment | 50% max |
| 11 | Nominal supply voltage | 25 kV , 50 Hz, Single Phase, AC |
| 12 | Normal contact wire height for Double Stack Container Operation. | 7.54 m from rail level. (to be designed by the package 4 contractor) |
| 13 | Regenerative brake effort | 25% (approx.) of gross locomotive weight. |
| 14 | No. of junction stations | 8 |
| 15 | No. of crossing stations | 21 |
| 16 | No. of traction sub-stations | 16 |
| 17 | No. of sectioning posts | 16 |

5. While the details of Qualification Criteria and scope of work will be provided in the Bid Documents, indicative salient features for the same are brought out hereunder for information and guidance of the prospective Bidders.

a) **Financial Performance**

Submission of audited balance sheets or if not required by the law of the Applicant's country, other financial statements acceptable to the Employer, for the last five (5) years to demonstrate the current soundness of the Applicant's financial position and its prospective long term profitability.

As a minimum requirement, an Applicant's net worth calculated as the difference between total assets and total liabilities should be positive for total of five (5) years.

b) **Average Annual Turnover for similar works**

Minimum average annual turnover of US \$125 million, calculated as total certified payments received for contracts in progress or completed, within the last five (5) years.

c) **General Experience of Design, Supply, Installation, Testing and Commissioning**

Experience under Design, Supply, Installation, Testing and Commissioning Contracts in the role of Contractor, Management Contractor, or Sub-Contractor, for at least the last five (5) years prior to the application submission deadline and with activity in at least nine (9) months in each year

d) **Specific Supply, Installation, Testing and Commissioning Experience**

Experience exclusively in the role of prime contractor or partner in existing or past joint venture, in works with:-

- i. At least one (1) contract of value of at least US\$ 132 million, or
- ii. At least two (2) contracts each of value of at least US\$ 82.5 million, or
- iii. At least three (3) contracts each of value of at least US\$ 66 million

within the last ten (10) years, (prior to the application submission deadline), that have been Substantially Completed or have received Taking-over Certificate for whole of the works as the result of successfully and substantially completed and that are similar to the proposed works.

The works pertaining to Railways, Metro Railways, Electrical Sub-Stations and Transmission & Distribution of Electric Energy shall only be considered.

e) **Specific Supply, Installation, Testing and Commissioning Experience**

For the above or other similar contracts executed during the period stipulated above, supply installation, testing and commissioning experience as a prime contractor, management contractor or sub-contractor in the following key activities:

1. 25kV Traction Overhead Line Equipment (OHLE) System & transmission lines of 132kV and above for 375 KM in any one year (12 consecutive months). Out of which minimum 40% (i.e. 150TKM) shall be OHLE work.
2. Electrical substation of 132kV or above of Transformer capacity 50MVA (min)/Traction Sub-station 25kV/2x25kV – 2 nos. energization in any one year (12 consecutive months)
3. SCADA system for Railway Traction or any other power plant monitoring and control covering minimum 20 RTU (Route Terminal Unit) commissioning in any one year (12 consecutive months)

for the projects that have been Substantially Completed or have received Taking-over Certificate for whole of the works as the result of successfully and substantially completed and that are similar to the proposed works.

The works pertaining to Railways, Metro Railways, electrical sub-stations and transmission & distribution of electric energy shall only be considered.

f) **General Design Experience**

Experience exclusively in the role of Prime Contractor, Sub-Contractor, Design Consultant, Design Sub-Consultant or In-House Designer in:

- i. At least one (1) design contract of value of at least US\$ 1.32 million, or
- ii. At least two (2) design contracts each of value of at least US\$ 0.825 million, or
- iii. At least three (3) design contracts of value of at least US\$ 0.66 million.

within the last ten (10) years, (prior to the application submission deadline), that have received Taking-over Certificate for whole of the works as a result of successfully and substantially completed and that are similar to the proposed works.

The works pertaining to Railways, Metro Railways, Transmission & Distribution of Electric Energy shall only be considered.

g) **Specific Design Experience**

For the above or other similar contracts executed during the period of five (5) years a minimum design experience in the following key activities:-

1. Design of 2x25 kV or 25kV Overhead Line Equipment for a length of minimum 100 TKM
2. Design of Traction Power Supply system including Traction Sub-Stations for 2x25 kV AT feeding system.
3. Design of SCADA system for Railway Traction or any other power plant monitoring and control covering minimum 20 RTU (Route Terminal Unit)

For the projects that have been Substantially Completed or have received Taking-over Certificate for whole of the works as the result of successfully and substantially completed and that are similar to the proposed works.

The works pertaining to Railways and Metro Railways shall only be considered.

6. The Contractors/Sub-contractors meeting broadly the above criteria and willing to participate in the Bidding Process may be in readiness to submit their Bids on time so that the project could be commissioned as per schedule.

Notice for inviting the Tender for this Package is likely to be announced shortly.

7. *This advance notice to the prospective bidders is not a part of the bidding process and it will not amount to any binding on the part of DFCCIL and JICA. This advance notice is subject to changes and the exact eligibility conditions and criteria will be known after the Notice to Invitation of the Tender is published.*

For any further queries, GM/EL/WC may be contacted at Ph No. 011-23454830 or through E-mail: akkalia@dfcc.co.in