

**Advance information for Prospective Bidders for Signalling and
Telecommunication Works for Contract Package ST P-5, Rewari- Vadodara
Section, W-DFC**

Country : India
Loan Agreement No.: IN – P209

Name of the Project : **Design, Supply, Installation, Testing and Commissioning of Signal and Telecom works for double line Railway involving Station interlocking, automatic block signaling, interlocking of level crossing gates, track vacancy detection system, power supply, point machines, signals, train monitoring and diagnostic system, TPWS, Telecommunications works on design-build lump sum (LS) Price basis for Rewari-Vadodara Section (Approx. 922 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 922 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 S&T works, including **Station interlocking, automatic block signaling, interlocking of level crossing gates, track vacancy detection system, power supply, point machines, signals, train monitoring and diagnostic system, TPWS, Telecommunication Systems** 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 guide lines, eligible nationality of the applicant and all partners constituting the Applicant 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 be 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
 - Electronic Interlocking, Train Protection and Warning System, Track Vacancy Detection System for Stations, Track Vacancy Detection System for Block Sections, Train Monitoring and Diagnostic System required for the Permanent Works under this Contract.
4. Major features of this Package-5 (STP-5) are tabulated below:-

Sl. No.	Signaling & Telecommunication Items	Approximate quantity
1.	Route length	922 km.
2.	Electronic Interlocking at Junction Stations	9
3.	Electronic Interlocking at Crossing Stations	20
4.	Automatic Block Signalling	Block length 2 kms
5.	Track vacancy Detection system for stations (Digital Axle counters)	29 stations
6.	Track vacancy Detection system for Block Section (Digital Axle counters)	Block length 2 kms
7.	Train Protection & Warning System (TPWS)	922 route km, 120 locomotives onboard devices of rolling stock
8.	Interlocking of Level Crossing gates	2
9.	Point machines	1 lot
10.	Train Monitoring and Diagnostic System (TMS)	1 lot
11.	EMC/EMI studies to determine induced voltages from IR and DFC Traction systems	1 lot
12.	Spare parts and tools for Signaling works	1 lot
13.	Pre-fabricated structure (Porta huts) for Signalling and Telecommunication equipment as indicated in the bidding document	Auto location hut for Signaling – 1 lot, Telecommunication hut – 1 lot
14.	Dispatching Telephone System	29 stations + 1 OCC
15.	Fixed Communication System	29 stations + each maintenance depot + 1 OCC
16.	GSM(R) System	922 route km
17.	Digital Electronic Exchange System	29 stations + 1 OCC
18.	Spare parts and tools for Telecom works	1 lot
19.	Training of DFCCIL maintenance staff	1 lot

5. While the details of Qualification Criteria and scope of work will be given in the Bid Documents, 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\$115million, 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 Signalling and Telecommunication construction contracts of similar size and nature in the role of contractor, management contractor, or subcontractor, 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.

The works pertaining to Signalling and/or Telecommunication for Railways/Metros/Monorails shall only be considered.

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 atleast:

(a) One (1) contract of US\$ 246 million or (b) two (2) contracts of US \$ 154 million each 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 being successfully and substantially completed and that are similar to the proposed works.

The project shall be considered to have been Substantially Completed if the applicant has received payment against the work done to the extent of 90% or more of the contract value.

The similarity shall be based on the physical size, complexity, methods / technology or other characteristics and Scope of Works.

The works pertaining to Railways/Metros/Monorails which include Signalling and/or Telecommunication only shall be considered.

- (e) For the above or other contracts executed during the period stipulated in (d) above, the prime contractor, management contractor or sub-contractor should have a minimum

supply, installation, testing and commissioning experience, in the following key activities:

- (a) On-board and track side/line side equipment of ATP/ETCS/Train Protection & Warning System – 184 Route km & 24 on-board devices of rolling stock in any one year.
- (b) Indoor & outdoor signaling work in connection with Electronic Interlocking – 6 station in any one year.
- (c) Automatic signaling – 184 route km in any one year.
- (d) Interlocking of Level Crossing gates – 1 gate in any one year.
- (e) Train Management and diagnostic System (TMS) or Centralised Traffic control for a minimum of 184 route kms. of automatic signaling and involving 6 stations – 1 system in any one year.
- (f) Digital Axle counter – 81 sets in any one year.
- (g) Dispatching Telephone system – 6 sets in any one year.
- (h) Fibre Optic Communication system for a minimum of 184 route kms and at least 7 Add/Drop nodes of SDH equipment – 1 system in any one year.
- (i) GSM(R) system for a minimum of 184 route kms in any one year.
- (j) Digital electronic Exchange System – 1 system in any one year.

(f) Specific Design Experience

- (1) Experience exclusively in the role of prime contractor, sub-contractor, design consultant or sub design consultant in works including Design and build works within the last ten years, 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 project shall be considered to have been substantially completed if the applicant has received payment against the work done to the extent of 90% or more of the contract value.

The similarity shall be based on the physical size, complexity, methods/technology or other characteristics and Scope of Works. The Design part shall include design of Signalling system involving Electronic Interlocking, Automatic Block Signalling, Track Vacancy Detection system, TPWS/ATP/ETCS and TMS/CTC including Power supply arrangement for a minimum length of 50 Route kms having at least 2 stations in Railway/Metro system.

- (2) Experience exclusively in the role of prime contractor, sub-contractor, design consultant or sub design consultant in works including Design and Build works within last ten years, 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 project shall be considered to have been substantially completed if the applicant has received payment against the work done to the extent of 90% or more of the contract value.

The similarity shall be based on the physical size, complexity, methods/technology or other characteristics and Scope of Works. The Design part should include design of Telecom system involving fibre Optic based Telecommunication network involving SDH, Add/Drop nodes, GSM(R) or GSM System for minimum length of 50 route kms in Railway/Metro system.

6. The Contractors/Sub-contractors meeting broadly 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.*