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BID DOCUMENT FOR

Design and Construction of Rail Flyover and approaches on Viaducts, Formation in Embankments/Cuttings including blanketing, Supply and Spreading of Ballast and related works for single track electrified railway line on Design Build Lump Sum Basis connecting New Boraki DFC yard to Dadri yard approx. length 4.54 Kms from Ch. 0.00 m (Rly Km 1410.436) to Ch. 4540 m (Rly Km 1414.955) and related Diversion works in connection with Eastern Dedicated Freight Corridor in the state of Uttar Pradesh in India.

CIVIL AND STRUCTURES CONTRACT PACKAGE

Issued on: 27.06.2018

Bid Document

No.: HQ/EN/EDFC-1/BID/RFO/BRKN-DER

**PART-5
(Price Schedules)**

**Employer:
DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED
A GOVERNMENT OF INDIA ENTERPRISE
under
MINISTRY OF RAILWAYS
COUNTRY: INDIA**

PART – 5

Price Schedules

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PART – 5 - Price Schedules

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PREAMBLE

1. The Price Schedules shall be read in conjunction with the “Instructions to Bidders”, “General Conditions”, “Particular Conditions”, “Employer’s Requirement”, “Technical Specifications”, and “Drawings”.
2. The bidder shall quote **lump sum cost in INR for the entire project** “**Design and Construction of Rail Flyover and approaches on Viaducts, Formation in Embankments/Cuttings including blanketing, Supply and Spreading of Ballast and related works for single track electrified railway line on Design Build Lump Sum Basis connecting New Boraki DFC yard to Dadri yard approx. length 4.54 Kms from Ch. 0.00 m (Rly Km 1410.436) to Ch. 4540 m (Rly Km 1414.955) and related Diversion works in connection with Eastern Dedicated Freight Corridor in the state of Uttar Pradesh in India**” in **Schedule-A**. The cost shall cover all the items of the work as detailed in the “Employer’s Requirement” contained in Part-2 Section-V of the Bid document as well as conforming to all specifications and stipulations laid down in the Bid Document including all addenda/corrigenda thereof till the date of submission of Bids. The lump sum cost shall be inclusive of all costs on Design, Drawings, Reports, Survey, Site Facilities, Construction Equipment, Plants, Instruments, Labour, Supervision, Materials, Erection, Testing, Maintenance, Temporary Works, Site Access, Safety, Security, Defect Rectification, Insurance, Profit, duties, GST, Taxes, Levies, Royalties as per applicable law together with all general risks, liabilities and obligations set out or implied in the contract.

3. To facilitate **stage payments** during execution for which Lump sum Cost shall be quoted in **Schedule A**, the entire work has been divided into **Six(6) Cost Centers** along with their respective percentages of the quoted lump sum of cost in **Schedule ‘B’**. The value of each cost centre can thus be worked out based on lump sum quote. For further facilitating stage/on account payment, each of the cost centres have been divided into cost sub centres with percentage apportionment of the cost attached to each cost centres as indicated in **Schedule B-1 to B-6**.

On account payments would be made on prorata basis for work done against each Cost Centre/Sub-Centre. There are certain items which are not included in Cost centres/Sub-centres, these works shall also be carried out by Contractor, no extra/additional payment shall be done on account of these works.

For the purpose of stage/on account payment, the successful Bidder needs to indicate quantities assessed on the basis of preliminary/Final designs/drawings for each Cost Centres/Sub-Centers. However, on approval of detailed designs and drawings by Engineer/Employer against, each Cost Centre/Sub Centre, the final quantities for each Cost Centre/Sub Centre would be considered and payment done will be adjusted accordingly.

4. **Filling of Bid document**

The Cost shall be filled in with indelible ink or be type written. The person authorized to sign on behalf of the Bidder shall sign in full with the date at the bottom of all pages and at the end of schedules.

**PRICE PROPOSAL SUBMISSION SHEET
(To be submitted with Financial Proposal only)**

Date:

Invitation for Bid No. **HQ/EN/EDFC-1/BID/RFO/BRKN-DER, dated : 27.06.2018**

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 7;
- (b) We offer to execute the Work in conformity with the Bidding Documents;
- (c) The total price of our Bid is as per schedule- A (Attached).
- (d) 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; and
- (e) We have not made any tampering or changes in the bidding documents on which the bid is being submitted and if any tampering or changes are detected at any stage, we understand the bid will invite summery rejection and forfeiture of bid security/the contract will be liable to be terminated along with forfeiture of performance security, even if LOA has been issued.
- (f) We understand that you are not bound to accept the lowest bid or any other bid that you may receive.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

PRICE SCHEDULE
Schedule A

(Sub-clause 14.1 of GCC)

Name of Work :- “Design and Construction of Rail Flyover and approaches on Viaducts, Formation in Embankments/Cuttings including blanketing, Supply and Spreading of Ballast and related works for single track electrified railway line on Design Build Lump Sum Basis connecting New Boraki DFC yard to Dadri yard approx. length 4.54 Kms from Ch. 0.00 m (Rly Km 1410.436) to Ch. 4540 m (Rly Km 1414.955) and related Diversion works in connection with Eastern Dedicated Freight Corridor in the state of Uttar Pradesh in India.”

S No.	Description of Schedule	Lump Sum cost in INR	
		In Figures	In Words
1	2	3	4
1	Design and Construction of Rail Flyover and approaches on Viaducts, Formation in Embankments/Cuttings including blanketing, Supply and Spreading of Ballast and related works for single track electrified railway line on Design Build Lump Sum Basis connecting New Boraki DFC yard to Dadri yard approx. length 4.54 Kms from Ch. 0.00 m (Rly Km 1410.436) to Ch. 4540 m (Rly Km 1414.955) and related Diversion works in connection with Eastern Dedicated Freight Corridor in the state of Uttar Pradesh in India.		
	Total Amount Rs.		

Note:-

- 1) The cost shall be filled in with indelible ink or be type written.
- 2) The above quoted cost covers all items of the work as detailed in the “Employer’s Requirement” contained in Part 2 – Section-V as well as conforming to all specifications and stipulations laid down in the Bid Document including all addenda/corrigenda thereof till the date of submission of Bids.
- 3) It is inclusive of all costs on Design, Drawings, Reports, Survey, Site Facilities, Construction, Equipment, Plants, Instruments, Labour, Supervision, Materials, Erection, Testing, Maintenance, Temporary Works, Site Access, Safety, Security, Defect Rectification, Insurance, Profit duties, GST, Taxes, Levies, Royalties as per applicable law together with all general risks, liabilities and obligations set out or implied in the contract.

SIGNATURE OF BIDDER

Price Schedule
Schedule - B
Apportionment of Contract Price for Payments According to Cost Centres

(Sub-clause 14.4, GC)

S N	Cost Centre	Percentage of Contract Price
(1)	(2)	(3)
1	Survey, investigation, Design, Setting out and As Built drawings	1%
2	Construction of Viaduct on approaches	80%
3	Bridge Portion of Rail Fly Over Steel Girder Spans (Main and both side spans)	12%
4	Earthwork & Retaining Walls	3%
5	Ballast Supply and Spreading	1%
6	Miscellaneous works covered under the contract & Final Taking Over	3%
	Total-	100%

The percentage figures as filled in column 3 by the Employer for the apportionment of the Contract Price for completion of the Works corresponding to the items given above are fixed and payment will be released for different cost centre as per above percentage break-up of contract price. Refer Sub-Clause 14.4 – Particular Conditions of Contract for further details.

Price Schedule B-1

Contract Price Weightage for Interim Payments

for

Survey, Investigation, Design, Setting Out and As Built Drawing

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Survey, Investigation, Design, Setting Out and As Built Drawing	Survey	1	Site survey and finalization of alignment	5%	1 % of the Contract Price	Unit of measurement is linear length along alignment. Payment of each stage will be made on prorata completion of linear length as per weightage given in this Schedule
	Geotechnical Investigations	2	Site data collection, Detailed Geotechnical and Hydrological investigations report submission, and approval of Report by Engineer.	10%		
	Preliminary Design	3(a)	Preliminary Design of RFO portion (Steel Girder Span portion)	10%		
		3(b)	Preliminary Design of Viaduct and formation including Retaining Walls, drainage and all other structures	10%		
	Definitive Design	4(a)	Definitive Design of RFO portion (Steel Girder Span portion)	15%		
		4(b)	Definitive Design of Viaduct and formation including Retaining Walls, drainage and all other structures	15%		
	Setting Out	5	Setting out of the Final Alignment with location of all structures	15%		
	Completion Drawings	6	As Built Drawings	20%		
TOTAL				100%		

Note :

Payment will be made on certification of the Engineer for various items.

Price Schedule B-2
Contract Price Weightage for Interim Payments
for
Construction of Viaduct

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weightage	Cost	Payment Procedure
Construction of Viaduct	Foundation	1	On completion of Pile Foundation/Well Foundation including Pile Cap/Well Cap.	20%	80 % of the Contract Price Unit of measurement is linear length along alignment. Payment of each stage will be made on prorata completion of linear length as per weightage given in this Schedule.
	Sub-structure	2	On completion of abutment & piers including abutment & pier cap.	20%	
	Super-structure	3	On completion of Deck Slab/Top Slab including Composite/RCC/PSC Girders.	50%	
	Ancillary Works	4	On completion of balance works like wearing course, walkway/foot path, cable duct, railings, wing walls, return walls, Ballast Retainer, expansion joint, hand railing, trolley refuges, drainage arrangement, earthing arrangement, pedestal for OHE mast, all types of protection works, pitching, back filling at approaches, painting/finishing etc. complete in all respect.	10%	
Total:				100%	

Note-

1. Payment will be made on certification of the Engineer for various items.

Price Schedule B-3

Contract Price Weightage for Interim Payments

for

Bridge Portion of Rail Fly Over Steel Girder Spans (Main and both side spans)

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Bridge portion of Rail Fly Over	Foundation	1	On completion of Pile Foundation/Well Foundation including Pile Cap/Well Cap.	20%	12 % of the Contract Price	Payment will be made on prorata completion of complete group of Piles/Well for each pier/abutment
	Sub-structure	2	On completion of piers/abutment including pier/abutment cap work upto the bottom of super-structure (without bearings).	15%		Payment will be made on prorata completion of each pier/abutment
	Super-Structure	3(a)	On fabrication of Open Web Steel Girder & Transportation of the same to site. * see note 3 below	20%		Payment will be made on prorata completion of each span.
		3(b)	On Erection of Open Web Steel Girder on site & fixing of bearings. * see note 3 below	20%		Payment will be made on prorata completion of each span.
		3(c)	On Launching of Open Web Steel Girder of the same.	15%		Payment will be made on prorata completion of each span.
	Ancillary Works	4	On completion of Ancillary works as per design/drawing like walkways, hand rails, Painting of Girders, testing etc.	10%		Payment will be made on prorata completion of each span.
Total:				100%		

Note :

1. Payment will be made on certification of the Engineer for various items.
2. Payment of each stage for RFO will be paid on completion of the relevant stage as per the Weightage given in the schedule.
3. * Stage payment against 3(a) & 3(b) shall be made against Bank Guarantee of value equal to weightage of these schedules valid up to date of programmed Launching plus 30 days. The BG shall be released on completion of launching i.e. Stage 3(c) with the approval of Engineer.

Price Schedule B-4

Contract Price Weightage for Interim Payments

for

Earthwork & Retaining Walls

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Earth work	Retaining Wall	1	Completion of Retaining Walls on both side approach of viaduct	35%	3 % of the Contract Price	Unit of measurement is linear length along alignment. Payment of each stage will be made on prorata completion of linear length as per weightage given in this Schedule.
	Earthwork in approaches of viaduct	2(a)	Earthwork in embankment / cutting including compaction so as to achieve 50% of desire height below bottom of blanket layer in approaches of viaduct.	15%		
		2(b)	Earthwork in embankment including compaction upto bottom of blanketing layer in approaches of viaduct.	15%		
		2(c)	Earthwork in blanketing layer including compaction complete in all respect in approaches of viaduct.	20%		
	Ancillary works	3	Longitudinal/cross drains including cable ducts on either side of drain, retaining structures, pitching, turfing and other incidental works, complete.	15%		
Total:				100%		

Note :

- i) Payment will be made on certification of the Engineer for various items.
- ii) Track center, Ground level, formation level etc. shown in indicative plan and profile are indicative which may change as per design and Employer's requirements. However stage payment shall be made as per approved definitive plan and profile.

Price Schedule B-5

Contract Price Weightage for Interim Payments

for

Ballast Supply and Spreading

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Ballast Supply and Spreading	Ballast Supply and Spreading	1	Supply and Spreading of Ballast :		1 % of the Contract Price	
		1(a)	Supply of Ballast (Quantity: 3,500 Cum)	30%		Stage payment under this cost centre will be regulated based on pro-rata volumetric measurement (stack measurements) of Ballast Supply.
		1(b)	Spreading of Ballast (Quantity: Approx. 3,500 Cum) including levelling and rolling on Formation/Viaduct of Ballasted deck along DFC track alignment to make initial neat Ballast cushion of approx. 200mm after required rolling to facilitate laying of track over the ballast bed.	10%		Stage payment under this cost centre shall be regulated on prorated linear measurement basis of compacted/rolled profile of Ballast on bed.
		2	Supply of Ballast in stacks (Quantity: 6,500 Cum) at specified locations for the use by track contractor.	60%		Stage payment under this cost centre will be regulated based on pro-rata volumetric measurement (stack measurements) of Ballast Supply.
Total:				100%		

Note:

Payment will be made on certification of the Engineer for various items.

Price Schedule B-6
Contract Price Weightage for Interim Payments
for
Miscellaneous Works covered under the Contract and Final Taking Over

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weightage	Cost	Payment Procedure	
Miscellaneous Works covered under the Contract and Final Taking Over	Miscellaneous Works	1	Completion of all other finishing items like Bridge name board, bridge plaque, trolley refuge, railing for inspection platform, ladders, finishing, painting, drainage, earthing arrangements, pedestal for OHE mast, etc.	40%	3 % of the Contract Price	Payment will be made on completion of these activities.
	Final Taking Over Activities	2	Final Taking Over	60%		Lump Sum.
Total:			100%			

Note: Payment will be made on certification of the Engineer for various items. Further distribution for stage payment of Item 1 above will be decided by Engineer.