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BID DOCUMENT FOR

Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar in India.

CIVIL AND STRUCTURES CONTRACT PACKAGE

Issued on: **12.10.2015**

Bid Document

No.: HQ/EN/EC/SEB JN.Works

PART-5

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 Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar 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, 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 **Thirteen (13) 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-13**.
On account payments would be made on prorated 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/EC/SEB JN.Works, dated : 09.10.2015**

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 summary 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			
<u>Schedule A</u>			
(Sub-clause 14.1 of GCC)			
Name of Work :- “Design and Construction of Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar 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 Formation in Embankments/Cuttings including blanketing, Viaducts, Rail Flyover, Bridges (Major, Minor & RUBs), Supply and Spreading of Ballast and other related infrastructural works for double track electrified railway line on Design Build Lump Sum Basis from Howrah end approach of DFC Sone bridge to Chirailapathu station of IR towards Howrah & to New Sonnagar station towards Garhwa and at Dehri-on-Sone yard from Km. 3.16 to Km. 5.38 in connection with Eastern Dedicated Freight Corridor in the state of Bihar 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, 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	2.0
2	Construction of Viaduct	33.0
3	Bridge Portion of Rail Fly Over and its approach spans (excluding approach earth work which will be covered in "Earthwork").	13.0
4	Earthwork	13.0
5	Minor Bridges, Road Under Bridges, LHS & RCC Buried Boxes	6.3
6	Major Bridges	5.0
7	Ballast Supply and Spreading	4.0
8	Construction of Station Building at New Sonnagar, Cabin at Chirailpathu and Cabin at Sonnagar.	0.7
9	Construction of quarters (162 units) and construction of one 50,000 gallon capacity RCC water tank with tubewell 15000 GPH capacity & pump at Sonnagar/approved location.	7.0
10	Construction of 100000 gallon capacity RCC tank with tubewell 15000 GPH capacity with pump & pump house, Electrical Sub-station, Electrical office, Carriage & Wagon office (317.50Sqm plinth area) at Dehri-on-Sone.	2.0
11	Construction of new ROB, dismantling of existing structures, regrading of road including construction of return walls & RE panel for restoration of traffic at NH-2 at DFC Ch.4900.	8.0
12	Shifting of Chartered Utilities: Civil & Electrical and dismantling of Water Tank, Boundary Walls, Buildings (sub-station, electrical office, carriage & wagon office, quarters, Temple etc.) falling on DFC alignment.	2.0
13	Miscellaneous works & Final Taking Over	4.0
	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	1	Survey	1(a)	Site survey and finalization of alignment	05%	2 % 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/ Hydrological Investigations	1(b)	Site data collection, Detailed Geotechnical and Hydrological investigations report submission, and acceptance of Report by Engineer.	10%		
		Preliminary Design	1(c)	Preliminary Design of the formation, bridges, culverts, Viaduct, Flyovers / RUB, LHS, fencing, drains, buildings, and all other structures.	20%		
	2	Definitive Design	2	Definitive Design of the formation, bridges, culverts, Viaduct, Flyovers, RUB, LHS, fencing, drains, buildings, and all other structures.	30%		
	3	Setting Out	3	Setting out of the Final Alignment with location of all structures	15%		
4	Completion Drawings	4	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	Construction of Viaduct.	1	On ground clearance, ground improvement if required to improve the bearing capacity and testing, completion of the foundation works etc.	10%	33 % 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.
		2	On completion of RCC Boxes/abutment & piers in case of slab/girder.	50%		
		3	On completion of balance works as per drawing like –wearing quote/deck slab, walkway/foot path, cable duct, railings, wing walls, return walls, Ballast Retainer, 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.	40%		
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 and its approach spans (excluding approach earthwork which will be covered under “Earthwork”)

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weightage	Cost	Payment Procedure	
Bridge portion of Rail Fly Over and its approach spans (excluding approach earthwork which will be covered under “Earthwork”)	Construct ion of Bridge Portion of Rail Flyovers and its approach spans (excluding approach earthwork which will be covered under “Earthwork”)	1	On ground clearance, preparation of base below the pile cap for pile foundations or below the well cap for well foundation or below the pier base for open foundation as applicable, ground preparation work, completion of the foundation works and testing work.	20%	13 % of the Contract Price	Payment of each stage for RFO will be paid on completion of the relevant stage as per the Weightage given in this schedule.
		2	On Completion of abutment/piers including pile caps or well caps as applicable, work up to the bottom of super-structure (without bearings) including pier/abutment cap.	15%		
		3	On completion of super structures, bearings, walkways, hand rails, testing.	40%		
		4	On completion of balance works as per drawing like - wing walls, return walls, back filling, all protection works, Painting of Girders, pitching, turfing, if any, etc. complete in all respects.	25%		
Total:			100%			

Note :

1. **Payment will be made on certification of the Engineer for various items.**
2. For Rail Flyover and its approach spans – the stage 1 & 2 above will be further subdivided, into Number of piers + 2 abutments as per the approved drawing of RFO and stage payment for completion of work for each pier and abutment shall be made as per the requirement of these stages.
3. For Stage-3: Stage payment for completion of work of superstructure shall be made on completion of each span on prorata completion of linear length.

Price Schedule B-4
Contract Price Weightage for Interim Payments
for
Earthwork

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weightage	Cost	Payment Procedure	
Earth work	Earthwork in formation including blanketing, drains, retaining structures, turfing, pitching and other incidental works.	1	Earthwork in embankment/cutting including compaction so as to achieve 50% of desired height below bottom of blanketing layer:		13 % 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.
		1(a)	For Sonnagar-New Sonnagar alignment (Ch.225.975 to Ch.8460),	13%		
		1(b)	For Sonnagar-Chirailapathu alignment (Ch. 225.975 to Ch. 7270),	13%		
		1(c)	For Km 3.16 to Km 5.38 (Near DOS).	4%		
		2	Balance earthwork in embankment/cutting including compaction upto bottom of blanketing layer:			
		2(a)	For Sonnagar-New Sonnagar alignment (Ch.225.975 to Ch.8460),	11%		
		2(b)	For Sonnagar-Chirailapathu alignment (Ch. 225.975 to Ch. 7270),	11%		
		2(c)	For Km 3.16 to Km 5.38 (Near DOS).	3%		
		3	Earthwork in Blanketing layer complete in all respect	35%		
		4	Longitudinal/cross drains including cable ducts on either side of drain, retaining structures, pitching, turfing and other incidental works, complete.	10%		
Total:			100%			

Note :

- i) Payment will be made on certification of the Engineer for various items.
- ii) In case of UP & DN lines to / from Chirailapathu on both sides of viaduct where UP and DN line are separate, each line will be considered half linear length separately for the purpose of payment.
- iii) 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
Minor Bridges, Road Under Bridges, LHS and RCC Burried Boxes
(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weight age	Cost	Payment Procedure
Minor Bridges, RUBs, LHS and RCC Burried Boxes.	Construction of Minor Bridges, Road Under Bridge, LHS and RCC Burried Boxes etc.	1	On ground clearance, ground improvement if required to suit design bearing capacity and testing, completion of the foundation works etc.	10%	6.3 % of the Contract Price	Cost of each minor bridge/RUB/ LHS/Burried Boxes will be determined on the basis of total linear length, along alignment, of the minor bridges/RUB/LHS/Burried Boxe on pro-rata basis. Payment of each stage for a bridge/RUB will be made on the completion of the relevant stage as per the weightage given in this schedule.
		2*	On completion of RCC Boxes, abutment, piers for slab/girder bridges.	47%		
		3	On completion of balance works as per drawing like -deck slab, walkway, footpath, cable duct, railings, wing walls, return walls, Ballast Retainer, hand railing, all types of protection works, pitching, turfing, back filling and approaches, river training works, if any, etc. complete in all respects.	43%		
Total:				100%		

Note-

1. Payment will be made on certification of the Engineer for various items.
- 2* If a bridge is constructed using precast elements, then 75 % payment against sub cost centre 2 shall be released upon finishing casting of elements and transporting all such elements to the site of bridge construction. Balance 25% shall be released after completion of stage 2.
3. In case of UP & DN lines to / from Chirailapathu on both sides of viaduct where UP and DN lines are separate, each line will be considered half linear length separately for the purpose of payment.

Price Schedule B-6

Contract Price Weightage for Interim Payments

for

Major Bridges

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Major Bridges	Construction of Major Bridges	1	On ground clearance, preparation of base below the pile cap or below the well cap for well foundation or below the pier base for open foundation as applicable, ground preparation work, completion of the foundation works and testing work.	25%	5 % of the Contract Price	Cost of each bridge will be determined on the basis of total linear length along the alignment, of the bridges on prorata basis. Payment of each stage for a bridge will be made on completion of the relevant stage as per the weightage given in this schedule.
		2	On Completion of abutment, piers including pile caps or well caps as applicable, work up to the bottom of super-structure (without bearings) including pier/abutment cap.	20%		
		3	On completion of super structure, bearings, walkway footpath, cable duct, hand rails, testing etc.	30%		
		4	On completion of balance works as per drawing like - wing walls, return walls, all protection works, pitching, completion of approaches including back filling, turfing, if any, testing on completion etc. complete in all respects.	25%		
Total:				100%		

NOTE :

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

Price Schedule B-7

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 :		4 % of the Contract Price	
		1(a)	Supply of Ballast (Quantity: 44,000 Cum)	32%		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: 44,000 Cum) including levelling and rolling on Formation/Sone Bridge/Viaduct/Balasted deck Bridges 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: 66,000 Cum) at specified locations for the use by track contractor.	58%		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-8
Contract Price Weightage for Interim Payments
for
Construction of Station Building at New Sonnagar, Cabin at Chirailapathu and Cabin at Sonnagar

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work		Stage Payment	Weightage	Cost	Payment Procedure
Construction of Station Building at New Sonnagar, Cabin at Chirailapathu and Cabin at Sonnagar	Construction of Station Building at New Sonnagar, Cabin at Chirailapathu and Cabin at Sonnagar	1	On completion of foundation upto plinth level as per Employer's requirement.	20%	0.7 % of the Contract Price	For the purpose stage payment, cost of each building will be determined on pro-rata basis of total area of building in Sqm. For buildings having more than one storey the total area of each such building would be found out by adding the area of each storey to arrive at the total area. Payment of each stage under this cost centre will be made as per weightage given in this schedule.
		2	On Completion of Brick work upto roof level including door and window frames as per Employer's requirement.	40%		
		3	On completion of roof casting, plastering, fixing doors/window shutters, painting door/window shutters, sanitary/water supply works, internal electrical wiring works in the buildings and final finishing with all works complete as per Employer's requirement.	25%		
		4	Boundary wall, approach road, drainage outside buildings.	15%		
Total:					100%	

Note:

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

Price Schedule B-9

Contract Price Weightage for Interim Payments

for

Construction of Quarters

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Construction of quarter	Construction of quarters (162 units) and Construction of 50000 gallon capacity RCC tank with tubewell 15000 GPH capacity with pump at Sone Nagar and 8 units quarters at New Sonnagar .	1	On completion of foundation upto plinth level as per Employer's requirement.	20%	7 % of the Contract Price	For the purpose stage payment, cost of each building will be determined on pro-rata basis of total area of building/block in Sqm. For buildings having more than one storey the total area of each such building would be found out by adding the area of each storey to arrive at the total area. Payment of each stage under this cost centre will be made as per weightage given in this schedule.
		2	On Completion of Brick work upto roof level including door and window frames as per Employer's requirement.	34%		
		3	On completion of roof casting, plastering, fixing doors/window shutters, painting door/window shutters, sanitary/water supply works, internal electrical wiring works in each unit in the buildings and final finishing with all works complete as per Employer's requirement.	22%		
		4	On completion Water Tank of about 50,000 Gallon capacity for Railway.	9%		
		5	On completion Pump House and 15000 GPH tube well with pump & connection of Rising and Delivery pipe etc.	5%		
		4	Boundary wall, approach road, drainage outside buildings.	10%		
Total:				100%		

Note:

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

Price Schedule B-10

Contract Price Weightage for Interim Payments

for

Construction of 100000 gallon capacity RCC tank with tubewell 15000 GPH capacity with pump & pump house and Electric Sub Station, Electrical Office, Carriage & Wagon office (317.50 Sqm) plinth area at Dehri on sone.

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weight age	Cost	Payment Procedure
Construction of 100000 gallon capacity RCC tank with tubewell 15000 GPH capacity with pump & pump house, connection of rising and delivery pipe etc. and Electric sub station & Electrical, Carriage & Wagon office (317.50Sqm) plinth area at Dehri on sone.	Construction of Water Tank in lieu of existing Water Tank at DOS	1. On completion Water Tank of about 100,000 Gallon capacity for Railway.	40%	2 % of the Contract Price	Payment will be made on completion of these activities as per Weightage given in this Schedule.
	Pump House and 15000 GPH tube well with pump & Pump House, connection of Rising and Delivery pipe	2. On completion Pump House and 15000 GPH tube well with pump & connection of Rising and Delivery pipe	20%		
	Electric sub station building & Electrical, Carriage & Wagon office (317.50Sqm) plinth area at Dehri on sone.	3. On completion of Electric sub station & Electrical, Carriage & Wagon office (317.50Sqm) plinth area at Dehri on sone..	40%		
Total:			100%		

Note:

1. Payment will be made on certification of the Engineer for various items.
2. Further distribution for stage payment of item 2 & 3 above will be decided by Engineer

Price Schedule B-11
Contract Price Weightage for Interim Payments
for
Construction of new ROB, dismantling of existing structures, regrading of road including construction of return walls & RE panel for restoration of traffic at NH-2 at DFC Ch.4900.

(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weight age	Cost	Payment Procedure	
Construction of new ROB, dismantling of existing structures, regrading of road including construction of return walls & RE panel for restoration of traffic at NH-2 at DFC Ch.4900	Dismantling of RE Panel, return wall, etc. in length required to pass DFCCIL track and for construction of new abutments as per approved plan and protection of RE panel wall including removing of filled up sand etc. in between RE panel wall.	1(a)	Dismantling of RE Panel, return wall, existing abutments etc. in length required to pass DFCCIL track and for construction of new abutments as per approved plan and protection of RE panel wall including removing of filled up sand etc. in between RE panel wall.	3.5%	8 % of the Contract Price	Payment of each stage will be made on completion of the relevant stage as per the Weightage given in this schedule.
	Dismantling of existing abutments, return wall, beam under traffic and power block(as per requirement) and slab, removing of fill materials to facilitate construction of new abutment of 60 m Bow sting Girder	1(b)	Dismantling of existing abutments, return wall, beam and slab, removing of fill materials to facilitate construction of new abutment of 60 m Bow sting Girder	3.5%		
	Ground clearance, preparation of base below the pile cap for pile foundations or below the pier/abutment base for open foundation as applicable, ground preparation work, completion of the foundation works and testing work for Construction of new ROB opening for DFC tracks in existing Road (NH-2).	1(c)	On completion of ground clearance, preparation of base below the pile cap for pile foundations or below the pier base for open foundation or bottom slab of box as applicable, ground preparation work, completion of the foundation works and testing work for Construction of new ROB opening for DFC tracks in existing Road (NH-2).	3%		

Construction of abutment/piers for two Nos. two Lane RDSO standard 60 M Bow string Girder including pile caps as applicable, work up to the bottom of super-structure (without bearings) including pier/abutment cap for new ROB opening for DFC and IR tracks in lieu of existing ROB on NH-2.	2.	On Completion of abutment/piers including pile caps as applicable, work up to the bottom of super-structure (without bearings) including pier/abutment cap for new ROB opening for DFC tracks in existing Road (NH-2).as per approved GAD	30%
Completion of balance works of super structures(02 nos. 2lane Bow sting RDSO standard Girders), bearings, walkways, hand rails, crash barriers testing, wearing coat, wing walls /return walls, back filling, all protection works etc. complete in all respect for new ROB opening for DFC and IR tracks in lieu of existing 4 lane ROB on NH-2.	3.	On completion of balance works of super structures, bearings, walkways, hand rails, testing, wearing quote, wing walls /return walls, back filling, all protection works etc. complete in all respect for new ROB opening for DFC tracks in existing Road (NH-2).	40%
Completion of regrading of Road (NH-2) on both side of ROB for the purpose restoration of traffic on existing NH-2 after construction of new ROB opening complete including earthwork, WBM, black topping etc. as per NH specifications.	4.	On completion of regrading of Road (NH-2) towards Aurangabad side of ROB for the purpose restoration of traffic on existing NH-2 after construction of new ROB opening complete including earthwork, WBM, black topping etc. as per NH specifications.	20%
Total:			100%

Note :

1. **Payment will be made on certification of the Engineer for various items.**
2. Further distribution for stage payment of item 2 & 3 above will be decided by Engineer.
3. Traffic block will be arranged as per Appendix – 13, Volume-6, Section-V, Part-2 Employer’s Requirement. Expected duration of each block will be limited to maximum 3 – 4 hours in a stretch as per convenience of IR.

Price Schedule B-12
Contract Price Weightage for Interim Payments
for
Shifting of Chartered Utilities: Civil & Electrical and dismantling of Water Tank, Boundary walls, Buildings (Sub-station, Electrical Office, Carriage and Wagon Office, Quarters, Temple etc.) falling on DFC alignment.
(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment		Weightage	Cost	Payment Procedure
Shifting of Chartered Utilities: Civil & Electrical and dismantling of Water Tank, Boundary walls, Buildings (Sub-station, Electrical Office, Carriage and Wagon Office, Quarters, Temples etc.) falling on DFC alignment.	Civil Utilities	1.	Removal and reconstruction of chartered civil utilities as mentioned in Bidding Document.	25%	2 % of the Contract Price	Payment will be made on completion of these activities as per Weightage given in this Schedule.
	Dismantling of work of Water Tank, Sub Station, Offices, Godown etc.	2.	On completion of dismantling of Water Tank, Quarters, Temples, Sub Station Building, Offices, Godown etc.	35%		
	Electrical Utilities	3.	Relocation of chartered Electrical utilities as mentioned in Bidding Document.	40%		
Total:				100%		

Note:

1. Payment will be made on certification of the Engineer for various items.
2. Further distribution for stage payment of item 2 & 3 above will be decided by Engineer.

Price Schedule B-13
Contract Price Weightage for Interim Payments
for
Miscellaneous Works and Final Taking Over
(Sub-clause 14.4 of GC)

Cost Centre	Item of Work	Stage Payment	Weight age	Cost	Payment Procedure
Miscellaneous Works and Final Taking Over	Level Crossing	1. On completion of height gauge (Drg. No. TI/DRG/HGAUGE/R DSO/00002/05/0), road correction at unmanned LC.	5%	4 % of the Contract Price	Payment will be made on completion of these activities.
	Final Taking Over Activities	2. Completion of all other finishing items like Bridge name board, bridge plaque, flood gauges, trolley refuge, railing for inspection platform, ladders etc.	40%		Payment will be made on completion of these activities.
		3. Final Taking Over	55%		Lump Sum.
Total:			100%		

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