Clarifications to Pre-Bid Queries

INVITATION FOR BID (IFB) No: HQ/EN/EC/SEB JN. Works dated- 09.10.2015.

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. Following are clarifications to pre-bid queries on Bid Document No.HQ/EN/EC/SEB JN. Works issued on 12.10.2015 :

SN	Bid Document Part/Section / Page	Reference/Clause No.	Queries by Bidders	Clarification of DFCCIL
1	Alignment Drawings		For the bidder to have better understanding and revalidation of alignment w.r.t site, we hereby request that Auto Cad Drawings of the entire Alignment may please be provided.	Final drawings in PDF format have been extracted from Auto Cad Model/Layout. Auto Cad drawings contain some additional raw information also which may cause confusion. Bidder are therefore advised to refer PDF drawings.
2	Clause 2.2.5 Performance Parameters Compliance Page-34	The bidder shall submit details of compliance with the Employers requirements as listed in Part 2 of bidding documents.	As per Technical Proposal Submission Sheet (TPSS), Bidder is already required to declare at point no (b) that states: "We confirm that our offer is fully compliant with Bid Document and Technical Proposals submitted by us are in clause by clause compliance with Employer's Requirement and other specifications, including Addenda thereon. We offer to execute the works in conformity with the Bidding Document." Bidder understands that no additional document is required to be submitted against the said clause.	Please refer Amendment/Corrigendu m No.1

3.	BDS (ITB 16.1) Earnest Money Deposit (Security Deposit) Page-28	The Bidder should submit along with the bid, a bid security for Rs. 3.50 crore (Rupees Three Crore Fifty Lakhs only) in the following form : i) FDR (Fixed deposit receipt) / Demand Draft / Banker's Cheque / Pay Order for Rs.1.00 Crore and ii) Bank Guarantee as per format enclosed as BDF-9A for Rs. 2.50 crore	We request that in lieu of FDR /DD/Bankers Cheque/Pay order of Rs 1.00 Crore, Bank Guarantee for the full amount towards Bid security i.e. Rs 3.5 Cr is accepted.	Provisions of Bid Document shall prevail.
4	ITB CI 15.2(Period of Validity of Bids) & ITB CI 16.2 (Bid Security) Page-17-18	If a bid security is requested in accordance with ITB 16, it shall also be extended Sixty (60) days beyond the deadline of the extended validity period.Whereas CI 16.2 states The bid security shall be valid for period up to Ninety (90) days beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 15.2	May please clarify.	Please refer Amendment/Corrigendu m No.1.
5	Appendix To Tender Defect Notification Period Page-259	Defect Notification Period for the works shall be two years from the date of taking over of the works and issue of taking over certificate by engineer.	As per General norms defect notification period may be changed to one year against 2 yrs.	Provisions of Bid Document shall prevail.
6	General : Land Acquisition		Bidder believes that entire land has been acquired for the Project. Kindly confirm.	Schedule of handing over of site has been detailed in Sub Clause 2.1 of 'Appendix To Tender' of Part-3, Section-VII PCC of bid document.
7	Sec VI, Vol 5, CI 17.0 Construction- Ballast Bed Page-147	In case spare land is available with the Employer the same can be handed over to the Contractor free of cost for the purpose of establishing temporary	The location of tentative land and area to be provided space to be provided to the contractor may please be indicated for proper planning of the Project.	Please refer ITB clause 6.2 & 6.3 regarding Site Visit. Site survey/visit may be done by bidders

		construction depot(s)/stacking of Ballast		as requested vide above clause.
8	Cl 22.0 Provision & disposal of Earthworks material Page-155	The dumping sites provided by the Engineer, if any,	It is requested that the tentative location and maximum lead of dumping sites to be provided by Engineer may please be indicated to the bidders.	Please refer ITB clause 6.2 & 6.3 regarding Site Visit. Site survey/visit may be done by bidders as requested vide above clause.
9	Important Bridges		Please provide Scouring Depth of important bridges i.e. both for abutment & pier locations.	This is Design Build contract. Contractor is to carry out required technical investigations for design of bridges. Please refer Clause 3.3 of Part-2, Section-V, Volume 4 of bid document.
10	Scope of Work		Please confirm that whether circulating area of new station buildings, its connection to existing highway is in scope of project or not? If yes then give layout of connection.	Station Building at New Sonnagar has to be constructed as per indicative location given in the Yard plan. Approach road connecting Station Building and quarters to the diversion road as listed in chartered utilities is under the scope of this Bid. For detail, please refer Amendment/Corrigendu m No.1
			Please confirm whether water supply distribution lines from OH tank in station building and quarters are in scope?	Yes. Please refer Amendment/Corrigendu m No.1.

Please confirm that whether sewerage line from station building and quarters are in scope and if yes to which sewer line these are to be connected	No sewer lines in this area exist. Contractor has to design necessary sewerage system including septic tank, soak pits etc. for station building and quarters. Please refer Amendment/Corrigendu m No.1.
Please let us know that how the drainage of station building, circulating area and residential quarters are to be planned and connected to which main drain?	This is design build contract. Contractor has to design proper drainage arrangement to suit the site conditions.
Please confirm whether C&G water line for the station is to be provided or not?	Carrying and Gardening (C&G) water lines shall be provided as per designed layout by the Contractor.
Regarding dismantling of ROB and provision of new ROB with approach roads; what will be the standards and MSA and which road authority will approve it?	Please refer Amendment/Corrigendu m No.1.
Please confirm if internal roads within the quarters colony are in scope and if yes what shall be the standards.	Yes, internal colony road and approach road connecting with nearest road is under the scope of work. Please refer Amendment/Corrigendu m No.1.
Please confirm whether architectural plan for station circulating area, and residential colonies shall be provided or shall be assumed by us.	This is design and build contract. Contractor has to design the same.
Please confirm whether electric supply line to station buildings and quarters are in our scope or	Please refer Amendment/Corrigendu m No.1.

			not? If yes the power will be taken from which substation?	
11	Submission date	The deadline for submission of First Stage Technical Proposal is 9.12.2015	Since all the data provided in the document has to be revalidated and pre bid design to be carried out, we shall require more time for the proper working on the Tender. We thus request that the date of Tender submission may thus be extended by another six weeks from the existing submission date	Please refer Amendment/Corrigendu m No.1.
12	General		AutoCAD copies of the plan & Profile may please be provided	Please refer reply at SN- 1 above.
13		For Bridge No G1, the viaduct flyover general arrangement drawing "SPAN 220 x 6.5m x varying height RCC Box , CH 415- 2285".	Is the span arrangement of 220 cells mandatory? Or being an design build contract, Can the contractor proposes his own arrangement. Any guiding factors for the contractors proposals. Please clarify? Is the box cell arrangement compulsory? Or can contractor propose his own arrangement with open foundations? Please clarify? Is the continuity of box cells allowed? If yes what is the maximum length allowed for continuity.	This is design and build contract. Contractor can design as per Employer's requirements detailed in the bidding document. Provision of bid document shall prevails.
			What is the safe bearing capacity that can be taken for the design?	Contractor is to carry out Geotechnical investigation etc. as per Para-3.3 and Para-3.1 (3) of Part-2, Section-V, Volume-4 of Bid document.
14	<u>Minor bridges</u>	In the tender drawings, the median between IR and DFCC tracks have been provided with wing walls extending upto the face of existing IR wing walls. Construction of wing walls require the excavation near the wing walls of IR track.	Will the permissions of CRS needs to be taken for the same? Or can contractor proposes alternate arrangement?	This will be as per relevant codes detailed in Para-1.2 (3), Part-2, Section-V, Volume-4 of Bid document.

15	<u>LC RUBs/Buried</u> Boxes	Buried box with two cells of 4m x 3.6m has been proposed with approach ramps.	Please clarify whether the approach ramp is in scope of work or not?	Please refer Para-4 (c) of Part-2, Section-V, Volume -1 of Bid document.
16	<u>ROB on NH2,</u> <u>Bridge No G10</u> <u>1x60m span-</u> <u>2Nos</u>		 What is the minimum vertical clearance required above the rail top level for construction of ROB. GAD showing 4Nos of carriageways two in Red color and remaining to in Magenta and all are marked as existing abutments. Please clarify which of these are in scope of work as it is not clear in bid document/tender drawing. Dismantling the existing ROB requires road traffic to be diverted on alternate route. Are there any available routs as such? Please clarify? Is it mandatory to provide RDSO standard bow string girder for ROB? Or can the contractor propose his own design. Please clarify? If the GA drawing provided is correct in details of pile foundations of existing ROB, The existing piles may interfere with the new foundations for proposed span. In that case the span arrangement may need to revise. Will that be considered as variation? Please clarify? 	Please refer Amendment/Corrigendu m No.1.
17		Clause 1.2 'Removal of Trees' on page 161 of 289,	Sub clause (4) and (7) seems to be contradictory. This may be clarified.	Please refer Amendment/Corrigendu m No.1.
18		Clause 2 'Possession Periods' on page 225 of 289.	Employer should clarify how work will be executed without the required line closures and possessions.	Please refer Appendix 13 of Volume-6, Section-5, Part-2 'Employer's Requirement'. Provisions of bid document shall prevail.

19	Sub Clause 14.9 Payment of	It is requested that all retention money in form	Provisions of Bid
	Retention Money of PCC on page	of cash/FDR should be allowed to be replaced	Document shall prevail.
	255 of 289.	by the Bank Guarantee of equivalent amount.	
	In earlier contracts DFCC was		
	allowing time to time replacement of		
	Retention Money with Bank		
	Guarantee of equivalent amount. In		
	this Tender Document, 50% of		
	retention is being allowed to be		
	replaced by Bank Guarantee when		
	60% retention has been deducted		
	from the bill. Thus cash liquidity		
	upto 60% of 5% of contract value		
	say about Rs.11 Crores will get		
	unnecessarily blocked thus		
	adversely affecting the cash flow of		
	the project which in turn will be		
	detrimental to the progress of work.		
20	Particular Conditions Sub clause	The above 3 activities are in serial and not	Please refer
	8.2 Time for completion on page	parallel and so this work cannot be completed	Amendment/Corrigendu
	247 of 289	in the specified period of 900 days. For this job	m No.1.
	The work of ROBs (Bridge No.G10	total period required will be 48 months from the	
) at change 4900 M involves :-	date of handing over of site. It is suggested	
	i) Construction of two	that to save time two 3 lane ROBs of two 4	
	two lane ROBs	lane ROBs should be constructed in the first	
	adjacent to the	phase itself. So that no further construction of	
	existing ROBs,	ROBs is required to be done after dismantling	
	ii) Dismantling of the	of the existing ROB. In case our above	
	existing 4 lane ROBs	suggestion is not possible to implement, the	
	and	date of completion of this portion be increased	
	iii) Construction of New	to 48 months. For rest of the work, period of	
	ROBs with revised	900 days for completion is adequate.	
	span in place of		
	dismantled ROBs.		
21	Appendix to Tender GC Sub clause	The period specified in the Appendix to Tender	Please refer
	2.1 'Right to Access' to site on page	for handing over of various stretches is	Amendment/Corrigendu
	259 of 289.	unreasonably high as compared to the overall	m No.1.
		time given to the contractor for completion of	

		various stretches it is required that all sites specially where Major structure are involved should be handed over in 180 days. The contractor should be given a minimum of 605 days time for completion of a major structure or a portion there of over stretch from the date the stretch is handed over to the contractor. For completion of ROBs Bridge no. G10, 1461 days be allowed from the date of handing over of site.	
22	Appendix To Tender 'Advance Payment GC Sub Clause 14.2' on Page 260 of 289	Since the mobilization advance is interest bearing at high rate, advance should not be deducted by the time only 50% of work is completed since early deduction of advance leads to adverse cash flow. So, deduction of mobilization advance be made as per the following clause :- "The advance received by the contractor shall be repaid through percentage deduction in payment certificates: Deductions shall commence after 20% value of work is completed and shall be fully recovered by the time 85% of the value of work is completed. Such deduction shall be made at the amortization rate of Fifteen point four percent (15.40%) of the amount of each payment certificate (excluding the amount(s) paid towards 'Advance' under para 14.2 and towards 'plant & materials' under para 14.5), until such time as the advance payment has been fully repaid."	Provision of bid document shall prevail.
23	Appendix To Tender Sub clause 14.5 'Plant and Materials Intended for the works'	In order to facilitate the contractor to avail payment for material brought to the site, the following materials may be listed in the appendix for the purpose of clause 14.5 (B) (i) and 14.5 (C) (i).	Provision of bid document shall prevail.

24	contra	Beau aggr stress Schedule B, 'Apportionment of Ct price for payments stress stress aggr stress stress	ement, 2. Reber, 3. rings, 6. Expansion regate, 8. Sand, 9. I ssing Accessories e price schedule D Misc. and Final tak I liquidity of the ord requested that only as and handing over acreased from 33%	Joints, 7 HT Stran FCCIL have king ove er of Rs. 0.5% bo while th	7. Coarse d, 10. Pre as provided 4% r thus blocking 15 crore. e kept for Misc. e % for Viaduct	Provisions of Bid Document shall prevail.
25	The w constr structu weight The re	Schedule B-2 on page 10 of 22 for C veightage % specified for Viaduct uction of RCC Box whereas the Via ure consisting of PSC beams and RC tage percentage. evised weightage % for both RCC Bo gested below:	is impractical and aduct with pile foun C Deck slab will hav	is prob idation, p ve a com	biers and super pletely different	Please refer Amendment/Corrigendu m No.1.
	SN	Item of work		In case of RCC Box	In case of Viaduct with pile foundation, piers & PSC super structure	
	1	Ground clearance, Ground improve	ment	5%	-	
	2	Raft foundation/pile foundation		30%	45%	
	3	RCC Walls/Pier & Pier Cap		5%	10%	
	4	Deck Slab of RCC Box / Beams and	Slab/PSC Box	35%	40%	
	5	Wearing coat, footpath, cable duct, walls, return wall, Ballast Retainer, drainage arrangement, earthing, pe Mast, protection works, finishing & o respects.	trolley refuse, destal for OHE	5%	5%	
		Total		100%	100%	
n – 1		kisting price schedule may kindly be				

26	<u>22 for</u> Portion	<u>Construction of Bridge</u> balance work <u>of Rail Flyover.</u> in place of 20		respectively alkway, hand tage 3 should	Provision of bid document shall prevail. Please refer
		ightage % specified is impractical. The realis			Amendment/Corrigendu m No.1.
	SI. No.	Item of work	In case of RCC Box	In case of structure with pile foundatio n, piers & PSC super structure	
	1	Ground clearance, Ground improvement	5%	-	
	2	Raft foundation/pile foundation	30%	45%	
	3	RCC Walls/Pier & Pier Cap	25%	10%	
	4	Deck Slab of RCC Box / Beams and Slab/P	SC Box 35%	40%	
	5	Wearing coat, footpath, cable duct, railing, walls, return wall, Ballast Retainer, trolley re drainage arrangement, earthing, pedestal for Mast, protection works, finishing & complete respects.	efuse, or OHE	5%	
		Total	100%	100%	
	The exi	sting price schedule may kindly be modified,	as above.		

28		Price Schedule B-6 for Major Bridges on page 14 of 22 of Tender DocumentProvision of bidThe weightage % specified is impractical. The realistic percentages are suggesteddocument shall prevail.		
	below.	ignage // specified is implactical. The realistic percentages a	are suggested	doodment shan prevail.
	SI. No.	Item of work	Weightag e % for Major Bridge	
	1	Open foundation/pile foundation	45%	
	2	Pier & Pier Cap	10%	
	3	Super Structure including bearing	40%	
	4	Wearing coat, footpath, cable duct, railing, wing walls, return wall, Ballast Retainer, trolley refuse, testing, drainage arrangement, earthing, pedestal for OHE Mast, protection works, finishing & complete in all respects.	5%	
		Total	100%	
	The exi	sting price schedule may kindly be modified, as above.		