

Reply to Pre-Bid Queries

Tender No:- ST-EC-Kavach-BRKN-SEBN

Name of Work: -Survey, Design, Supply, Installation, Testing and Commissioning of KAVACH (Train Collision Avoidance System), Towers and other Associated works in Double Line Automatic Signalling Section New Boraki-New Khurja Jn-New Bhaupur-New Unchdih-New Sonnagar (931 Km approx.) of Eastern Dedicated Freight Corridor of DFCCIL.

SN	Tender Document, Clause No. & Page No.	Clause Description	Pre-Bid Queries raised in 1 st Pre-Bid Meeting held on 01.05.2025	Reply
1	RFP Document, Clause No. 2.2.2.4.iii. (b) & (c), Page No. 18 & 19 of 99	<p>b) Bidder shall either be Kavach OEM/Vendor approved in RDSO specification no. RDSO/SPN/196 Version 3.2/4.0 or latest Or bidder can be any Signalling & Telecom experienced Contractor having MoU/undertaking with Kavach OEM/Vendor approved in RDSO specification no. RDSO/SPN/196 Version 3.2/4.0 or latest for successful implementation of Kavach system.</p> <p>c) Approval of OEMs/Vendors in Kavach specification ver 4.0 is in process in RDSO. The bidder shall submit an undertaking that RDSO approval OEM/vendor in specification RDSO/SPN/196/2020 Version 4.0 or latest will be produced before supply of Kavach equipment.</p>	<p>In reference to Para 2.2.2.4 (iii) c of RFP, it is understood that KAVACH specification version 4.0 is under process of approval in RDSO. As per our best understanding, no OEM is approved for RDSO specification no. RDSO/SPN/196 version 4.0 as on date. In such cases if we read para 2.2.2.4 (iii) b and para 2.2.2.4 (iii) c together, it is construed that as on date only those OEMs are qualified who have approval of RDSO specification RDSO/SPN/196 Version 3.2. If our understanding is correct, only three OEMs namely Kernex, Medha and HBL shall be eligible against this clause. We hereby request to kindly clarify if our understanding (as above) is correct?</p> <p>In such case we request to kindly allow the OEMs /MOU partners of OEMs who are in advance stage of approval for RDSO specification no. RDSO/SPN/196 version 4.0</p>	<p>The conditions outlined in the tender are clear, self-explanatory, and shall take precedence.</p> <p>OEMs possessing RDSO vendor approval for Kavach Version 3.2 or latest are eligible to participate in this Kavach EPC tender.</p>

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			with status in RDSO's Vender directory as "Conditional approval subject to field trials"	
2	Feasibility Report, Clause 3.6, Page No. 27 of 30.	All stations are equipped with Control Phone, DLT phone, Admin Phone, WLL, GPH mobile phones of MTRC working on 24-Fibre OFC. All the LC gates also provided with DLT Telephone communication. Besides, communication through VHF sets is provided to Driver, Guard & Station master. MTRC Towers of height (30 Meters) as per Radio Survey report are provided in detour portions, new UHF/LTE Antenna & modems can be mounted on these existing Towers.	<p>In para 3.6 of Feasibility Report, it has been mentioned that "MTRC Towers of height (30 Meters) as per Radio Survey report are provided in detour portions, new UHF/LTE Antenna & modems can be mounted on these existing Towers". Kindly clarify if the bidder is required to provision new towers, UHF/LTE Antenna & modems for remaining portions i.e. other than detour portions. If yes, kindly also clarify whether the radio survey report is required for the remaining part of the sections.</p> <p>May please confirm modification for expansion of height of tower can be acceptable or not. May please also provide the location of the proposed tower.</p>	<p>The construction of new towers other than detour is included in the present scope of work.</p> <p>A total of 66 GSM-R towers, each with a height ranging from 30 to 35 meters, are available in the detour section of DFCCIL.</p> <p>The bidder shall carry out a RSSI survey to determine the required number and optimal locations of towers. During this survey, the existing GSM-R towers must be duly considered.</p> <p>Following the RSSI survey, if it is determined that the existing tower fails to provide the required signal strength, a new 40-meter tower shall be constructed to fulfill the project requirements.</p> <p>Alteration of the height of existing GSM-R towers in detour of DFCCIL is not permitted.</p>

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				For Location of Towers, refer Clause No. 4.15, Schedule A, Annexure-I "Site" of EPC Document (Page No.127).
3	General Query		It may please be confirmed that the "On Board Kavach" equipment are not under the scope of this Tender.	"On Board Kavach" equipment are not in present scope of the work.
4	EPC Document, Schedule-B, Annexure-I, Signaling overview item no.1, Page no. 134 of 239		If stationary KAVACH can be installed at LC Gates then interfacing of Stationary Kavach can be done through Relay or not wherever EI at gate not available. May please confirm.	Agreed. Wherever EI/OC is not provided at LC gate or it is not possible to interface with EI of the controlling ALH/RH of LC gate, at all such LC gate locations interfacing through relays is allowed.
5	RFP Document, Clause No. 2.2.2.4.iii. (c) Page No. 19 of 99	c) Approval of OEMs/Vendors in Kavach specification ver 4.0 is in process in RDSO. The bidder shall submit an undertaking that RDSO approval OEM/vendor in specification RDSO/SPN/196/2020 Version 4.0 or latest will be produced before supply of Kavach equipment.	As on date no OEM has Kavach version 4.0 approval. Is the joint venture between bidder & OEM having Kavach 4.0 developmental order allowed to participate in Kavach EPC tender?	Please refer reply given at item no.1.
6	RFP Document, Clause No. 2.2.2.4.iii. (c) Page No. 19 of 99	c) Approval of OEMs/Vendors in Kavach specification ver 4.0 is in process in RDSO. The bidder shall submit an undertaking that RDSO approval OEM/vendor in specification	Concerning the DFCCIL tender dated 16th April 2025, referred to above, please clarify if we can participate in the ongoing tender. Clause 2.2.4 does not clearly	Please refer reply given at item no.1.

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		RDSO/SPN/196/2020 Version 4.0 or latest will be produced before supply of Kavach equipment.	state whether we are eligible. You must be aware that we began when, the 4.0 spec version started taking shape, so we did not design or develop as per the 3.2 version.	
7	EPC Document, Schedule-B, Annexure-I, Signaling overview item no.1, Page no. 134 of 239	The section from New Boraki-New Khurja Jn-New Sonnagar is double line with Automatic Block Signalling (ABS) on Main lines in a continuous stretch with 4 Aspect Colour Light Signals (MACLS) at a nominal spacing of 2 Km. The DFC & IR connecting lines have absolute block working/slot working.	Can it be assumed that DFCCIL has automatic block working in the entire section. Is there any scope of absolute block where we meet mainline IR or at junction locations?	Yes. DFCCIL has automatic block working in the entire section of this project ie double line Automatic section of EDFC. At the meeting point of DFCCIL lines with IR mainline there is absolute block working or slot working between DFC station and IR station. Kavach track side equipment needs to be provided upto First Stop Signal and Last Stop Signal of IR station at IR-DFC junction line.
8	EPC Document, Schedule-G, Clause no.1.2.2, Page no. 203 of 239	Cost Center for 1.2.2 Tower Erection and Commissioning	Kindly clarify whether tower construction is in scope of this work as there in a cost Centre in Schedule G of EPC tender document.	Yes. Please refer reply given at item no.2.
9	EPC Document, Schedule-B, Annexure-I, Clause No. 35	35.Data logger Augmentation Data logger augmentation shall be done wherever IPS power supply arrangement is provided	Data logger augmentation is in the scope of the work.	Yes. Data logger augmentation is in the present scope of work.

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	“Data logger Augmentation” Page No 156 of 239	by Contractor, then status of IPS supply shall be included in data logger.		
10	EPC Document, Schedule-B, Annexure-I, Telecom overview item no.3, Page no. 135 of 239	Communication backbone is based on OFC. The OFC backbone has two networks namely First Network and Second Network. Each network has two OFCs (24 core each) one main and the other as redundant OFC. The main and redundant OFCs of both networks laid with route and path diversity. The first network runs between stations and second network covers stations, relay huts, auto location huts, LC gates, GSM-R towers, TSS, SP, SSP. OFC for Kavach will be provided by the existing OFC network of EDFC. No separate OFC shall be laid for Kavach. The OFC network design and planning of the entire section is attached along with tender document.	Kindly clarify if OFC laying is in the scope of the work	No. Main OFC with redundancy has been laid in the entire section. Only end mile OFC connectivity with Kavach and tower equipment needs to be laid.
11	General Query		Kindly confirm if all the design documents i.e. SIP, TOC, gradient profile & OHE traction profile are available in the digital format (Autocad version)	Yes. It is available in AutoCAD version.
12	EPC Document, Schedule-B,	Scope & Specification of Cable trenching & laying (for New towers only)	The provision of Cable route marker in this work, will be geo-tagged one? Kindly confirm	Yes.

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	Annexure-I, Clause no. 14 Page no 139 of 239.			
13	EPC Document, Schedule-B, Annexure-I, "Description of the DFCCIL Project" of EPC Document Page No. 137 of 239	RFID Tag: RFID tags shall be fitted on the sleepers between the track in both stations and block section for giving trackside information to Onboard KAVACH as per para 3.4.2 of RDSO/SPN/196/2020 Version 4.0 or latest with Technical Advisory Notes (TAN) and Guidelines issued by RDSO and Railway Board from time to time.	RFID tags to be installed for all lines in station section? Kindly Confirm.	Yes. RFID tags shall be installed on all DFCCIL lines.
14	RFP Document, Clause No 1.3, item no. 6, Page No.11 of 99.	More time is required to assess the requirements of this tender.		Pls refer Corrigendum no. 1 dated 06.05.2025. Bid closing Date has been extended to 26.06.2025.
15	EPC Document, Schedule-D, Annexure-I, Clause no. 1.1.6.(k) Page no. 177 of 239.	Outdoor Cabinets (ODCs)	(a) Kindly provide the technical specifications and drawings of the tower box. Query. (b) Kindly provide the arrangement of the tower box within the tower structure.	Please refer the related Clause of this tender document.
16	EPC Document, Schedule-D, Annexure-I,	Tower Works	The bidder understands that no earthing arrangement is required for the existing tower.	Bidder's understanding is Correct. Earthing arrangement for existing GSM-R towers of

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	Clause no. 1.1.6.(j) Page no 175 of 239.			DFCCIL is not in the present scope of work.
17	EPC Document, Schedule-D, Annexure-I, Clause No. 1.1.5 Page no. 165 of 239.	OFC cable Laying	<p>Kindly provide the cable route plan for the existing cable throughout the section.</p> <p>As per the cable route plan of the existing cable, the proposed tower location, cable work, and earthing work should not infringe upon the existing cable. However, despite adhering to the cable route plan or markings provided by DFCCIL, we have encountered or inadvertently cut the existing cable during the proposed work. Therefore, the contractor should not be held liable for the cost and rework. Please confirm.</p>	<p>Yes. Cable route plan is available for the entire section and shall be provided to bidder during site survey.</p> <p>Contractor shall be responsible for protection of existing S&T cables in the section and during execution of work, if existing S&T cables and gears are damaged, Contractor shall be responsible for its rectification.</p>
18	EPC Document, Schedule-D, Annexure-I, Clause No.4. (i) Page no. 180 of 239	Supply of Material	Bidders understand that the material has been inspected by RDSO, RITES, and a third-party agency; therefore, no further inspection by DFCCIL's representative will be required for the inspected material. Kindly confirm.	Please refer the related clause of this tender document.