

**DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED**  
**(A Government of India Enterprise)**  
**REPLY TO QUERIES FOR**  
**SYSTEM WORKS CONTRACT PACKAGE**  
**NCB No.: HQ/SYS/DB/NKWD-DGO**

| S. No. | Part | Section | Volume | Pg. No. | Clause | Relevant Abstract from the Tender  | Query / Clarification   | Reply to Queries  |
|--------|------|---------|--------|---------|--------|--|---|---|
| 1      | 2    | V(A)    | 5      | 40      | 10.4   | <p>REMOVAL OF GRAVES AND OTHER OBSTRUCTIONS: If any graves and other obstructions are required to be removed in order to execute the Works, the Contractor shall draw the Engineer's attention to them in good time. Similarly if there are any permanent structures other than those defined in the utilities, para 9.0 above, these shall be brought to the notice of Engineer in good time to allow all necessary arrangements and authorization for such removal. Contractor shall not itself remove them unless the Engineer has given consent. The modalities of removal shall be after mutual discussion between the Contractor and the Engineer.</p> | <p>It is assumed that payment for such activities shall be made separately and will not form part of bid-price. Please confirm.</p> | <p>No, It will be removed by the contractor at no extra cost as per para 1.0 of Appendix 1 - Utilities of Volume 6, Part 2.</p> |

|   |   |      |   |    |        |   |   |  |
|---|---|------|---|----|--------|---|---|--|
| 2 | 2 | V(A) | 5 | 41 | 11.2   | REINSTATEMENT OF PUBLIC ROADS AND FOOTPATHS   | Please provide the list of such diversions / reinstatements.  | No such list is available. Please refer para 10.2 & 11.2 of Volume 5 and para 4.9 of Volume 1 of Part 2.   |
| 3 | 2 | V(A) | 6 | 88 | 6.(10) | Any additional costs arising to the Contractor due to his late and/or improper interfacing with the other contractors and/or Indian Railways, shall be to the Contractor's account. Such improper interfacing shall include, but not be limited to:<br>a) Late provision of interfacing information<br>b) Failure to adhere to agreed interface<br>c) Changing an interface after it has already been agreed and signed off | It is assumed that any additional cost due to delay in inputs provided by other contractors shall be reimbursed to the bidder at actuals. Kindly confirm.         | No.  |
| 4 | 2 | V(A) | 6 | 88 |        |   | Access dates by civil and track contractor shall be furnished, based on which OHE and S&T work shall be planned. The access date shall act as the base-line date. | Please refer para 2.1 of Appendix to Tender, Section VII, Part 3 and para 18.2.2 of Volume 9, Section V(B), Part 2. Please also refer to Addendum No.2 |

|   |   |      |   |          |                     |   |   |   |
|---|---|------|---|----------|---------------------|---|---|---|
| 5 | 2 | V(A) | 6 | 88       | 1.(3)               | The Contractor shall, within one hundred and nineteen (60) days of the Commencement Date, prepare and submit to the Engineer for review his proposed Quality Assurance Plan, which shall comply with the requirements as mentioned in this Appendix | Kindly correct the clause suitably as words and numerics are not matching.  | Please refer Addendum No. 2.  |
| 6 | 2 | V(B) | 9 | 9        | 2.6.1. (a)          | The layouts of TSS, SSP and SP shall be planned within either the existing land procured or the right of way.   | It is assumed that all land required for construction of TSS, SSP & SP shall be provided by DFCCIL. Land acquisition is not in bidder's scope of works. Please confirm. | DFCCIL has acquired land for TSS/SP/SSPs as given in para 7.1.2 of PS-Electrical, Volume 9, Section V(B), Part 2. |
| 7 | 2 | V(B) | 9 | 28 / 157 | 6.5 and 21.4.6. 10) |   | Short circuit capacity for 132kV system is given as 40kA on Pg.28 and as 31.5kA on Pg.157. Please confirm which value to be used.                                       | Please refer Addendum no. 2   |

|   |   |     |  |    |                                      |  |  |  |
|---|---|-----|--|----|--------------------------------------|--|--|--|
| 8 | 3 | VII |  | 13 | Sub clause 8.2 / Time for completion | <p>The Permanent Works of entire geographical jurisdiction shall be completed in stages as under:-</p> <ol style="list-style-type: none"> <li>1. For carrying out Tests on Completion (Clause 9 of GC), including Integrated Testing, required for taking over entire Permanent Works completed in all respects as per Employer's Requirement for Phase-I mentioned in the Contract within (Three Hundred Thirty days) 330 days of Commencement Date. (Milestone 1)</li> <li>2. For completing all necessary Works required as per the Contract to enable certification of OHE fit for 100 kmph by an authority nominated by the Employer for Phase-I within (Three Hundred Sixty days) 360 days from the Commencement Date. (Milestone 2).</li> <li>3. For completing all works as per the Contract to enable certification by an authority nominated by the Employer and taking over the entire Works within (Eight Hundred and Ten days) 810 days from the Commencement Date. (Milestone 3).</li> </ol> | <p>Please confirm if CRS inspection will be done for Phase-I works separately and again after completion of all remaining works.</p> <p>Also, it is assumed that Phase-I equipment shall be allowed to be used, wherever applicable, for completion of remaining works. And redundant items shall be property of the bidder.</p> | <p>Yes.</p> <p>Yes, Phase-I equipments shall be allowed to be used, wherever applicable, subject to allowing passage to the traffic over DFCCIL lines.</p> <p>The redundant items shall be the property of Contractor.</p> |
| 9 |   |     |  |    | General                              | -  | Building drawings are not given in the tender document. These are required to decide the electrical & mechanical services in buildings.  | Please refer reply to query no. 10.  |

|    |   |      |   |     |                       |   |   |  |
|----|---|------|---|-----|-----------------------|---|---|--|
| 10 |   |      |   |     | General               | -   | List of buildings(e.g. services building, staff quarters, sub depots, IMDs etc.) & their area at each station is not shown in the tender document.  | IMD & Sub-depot are not in the scope of this contract. Station building at New Karwandiya, Durgawati & Kudra and staff quarters at Sasaram shall be constructed by Civil contractor. However, System contractor shall carry out civil and E&M works as per provisions of bid document.<br><br>Drawings of station buildings are provided now in the Reference Documents, Site Data, Part 4. Please refer Addendum No. 2. |
| 11 | 2 | V(A) | 6 | 77  | Appendix 1- Utilities | Procedure for Removal of Trees  | Please confirm what will be the procedure to be followed in the payment to the private tree owner in the case where the tree has to be cut. It is presumed that permission to cut trees shall be taken by DFCC. | Please refer para 4.0 (ii) (iv) & (vi) of Appendix 1 - Utilities, Volume 6, Section V(A), Part 2.  |
| 12 | 2 | V(B) | 9 | 153 | 20.5.1                | During the construction works, there may be unavoidable damage to crops, trees etc. both in erection of the line and making temporary approach roads to the line. Compensation on this account, if any will be paid directly by the contractor. | Please confirm what will be the procedure to be followed in the payment to the crop owner i.e whether the government rate of crops will be followed.  | Payment to the crop owner has to be made as per mutual agreement between System contractor and crop owner. The government rates may be a criteria.   |

|    |   |      |   |     |         |  |   |   |
|----|---|------|---|-----|---------|--|---|---|
| 13 |   |      |   |     | General |  | There are EHV lines crossing across the proposed DFCC track electrification which needs EIG clearance before charging of OHE. Please ensure that necessary approvals/relaxation shall be taken in advance & without delay for charging of OHE.      | EHV crossings and other utility shifting are not within the scope of the System contractor as per para 1.0 of Appendix 1 - Utilities of Volume 6, Section V(A), Part 2.<br><br>However as per para 4.6(c) & 5.0(ix) of Volume 1, Part 2, contractor is responsible for obtaining all statutory clearances/ certification including CRS & EIG. |
| 14 |   |      |   |     | General |  | There is no comment on other transmission lines coming on the way of proposed 132KV lines from BSEB to DFCC TSS. Please convey the suitable path without any infringement or advice any transmission line, if exists on the way as per your survey. | The alignment for DFCC 132 kV transmission line from Mathurapur GSS of BSEB to NKWD TSS has to decided by the System contractor through a suitable path. Survey, design and finalisation of the transmission line alignment is within the scope of this contract as per para 20.2 of Volume 9, Section V(B), Part 2.                          |
| 15 | 2 | V(A) | 6 | 134 | 6.3     |  | Please confirm for how many hours a day, the vehicle will be required by the Employer.  | Please refer para 6.2 (iv) of Appendix 15, Volume 6, Section V(A), Part 2.  |

|    |   |      |   |     |                    |   |   |  |
|----|---|------|---|-----|--------------------|---|---|--|
| 16 |   |      |   |     | General            |   | Please confirm the DFCC role for granting power block to connect DFCC OHE with IR and how sectioning & controlling shall be ensured?It may please be described in detail. | Please refer para 5.0(vi) of Volume 1, Part 2 and 2.3 of Appendix 3, Volume 6, Section V(A), Part 2. For sectioning and controlling during power block/traffic block please refer para 15.14 of Appendix 12, Volume 6, Part 2.   |
| 17 | 2 | V(B) | 9 | 128 | Appendix -B        | Typical arrangement for 25KV power supply from Kudra TSS of IR  | As per drawing, IR will provide 25KV supply beyond Railway line upto manually operated isolator. Please confirm who will provide this isolator(IR or DFCC contractor)?    | It will be provided by IR. Please refer Appendix -B of Volume 9, Section V(B), Part 2.   |
| 18 | 2 | V(B) | 9 | 10  | 3.3.1 a) pt. no. 2 | All works pertaining to Kudra/SP for Initial opening of the section by obtaining 25 KV supply through isolator at cross feeder gantry at Kudra TSS of Mughalsarai division of IR, as per scheme given in DFCCIL's Drawing No.DFCC/EL/EC/02. | Whether a dedicated feeder wire shall be erected for extension of IR 25KV supply from KudraTSS to proposed DFC Kudra SP at 596/4. Please confirm.                         | The supply from Kudra TSS of IR has to be taken upto Kudra SP of DFCCIL for feeding DFCCIL line in Phase-I only. This will be a temporary arrangement till such time, DFCCIL feed through NKWD TSS is made available. System contractor may accordingly make arrangements. Please refer para 3.3.1 (a) of Vol.9, Section V(B), Part 2. |

|    |   |      |   |           |                    |   |  |   |
|----|---|------|---|-----------|--------------------|---|--|---|
| 19 |   |      |   |           | General            | site condition  | Please confirm whether the service road will be available for execution by systems package contractor.   | Please refer para 16.0(2) of Volume 2, Part 2 and Para 4.15 of section (VI), Part 3. Service road is under construction in two third of the stretch. In balance stretch, land acquisition is in advance stage for service road. Any additional requirement in regard to roads/ service road has to be made by System contractor only. |
| 20 |   |      |   |           | General            | site condition  | Please give a target completion date for modification of ROB in progress required for planning of system package completion  | Please refer para 2.1 of Appendix to Tender, Section VII, Part 3.   |
| 21 |   |      |   |           | General            | site condition  | Please give a target completion date for diversion of all obstructions such as gate goomty, RPF office at Sasaram and accordingly availability of track for SYSTEM WORKS.  | Please refer sub clause 2.1 of Appendix to the Tender, Particular Conditions of Contract, Section VII, Part 3.  |
| 22 | 2 | V(B) | 9 | 75<br>109 | 13.1.3 a)<br>i. a. | Incoming supply to the Sub-Station shall be obtained from 33/11 kV Sub-Station of BSEB to the 11 kV Sub-Station of DFC through HT UG <b>Cable</b> . | 1) From where Incoming feed-2 shall be taken through underground cable. Please mention the location & the its approximate distance upto DFC substation.<br>2) What type of agreement shall be made with Incoming feed-2 owner regarding contract demand & power consumption? | Please refer Addendum No. 2.  |



|    |   |      |   |    |                    |   |  |   |
|----|---|------|---|----|--------------------|---|--|---|
| 23 | 2 | V(B) | 9 | 11 | 3.3.1 b) pt. no. 4 | All the works pertaining to SCADA and its commissioning.  | SCADA work will be commissioned with DFC TSS at Karwandiya. Please comment how testing/temporary commissioning of the systems will be carried out.               | OCC/RCC shall be commissioned at Mughalsarai Divisional office of East Central Railway as per para 2.4 of Volume 9, Section V(B), Part 2. |
| 24 | 2 | V(B) | 9 | 11 | 3.3.2 f) i)        | 25kV AC cable/ overhead connection from TSSs, SPs & SSPs to overhead feeder and current collection system.  | As regular practice, overhead connections are implemented in IR. Please comment how this cross feeder network will be decided through cable/overhead connection. | Both options are available. This has to be decided based on the site conditions.  |
| 25 | 2 | V(B) | 9 | 12 | 3.3.2 q)           | Power conditioning equipment at TSS to improve power quality.   | Please confirm whether it is a capacitor bank provision required for power factor improvement or it is something else.   | Please refer para 7.2 .8 and Annexure - IX of Vol.9, Section V(B), Part 2.  |
| 26 | 2 | V(B) | 9 | 13 | 3.4 f)             | "Assist" in obtaining clearances and submittal of information asked for by statutory bodies (e.g., Government of India, Ministry of Railways and Electrical Inspector to Govt. of India (EIG), Statutory Bodies etc. as directed by Engineer. | Contractor will assist but it will be responsibility of the Employer. Please confirm.  | Please refer Addendum no. 2   |
| 27 | 2 | V(B) | 9 | 20 | 4.9.3              | The traction power overhead line systems and all other associated equipment shall be designed for scheduled/routine maintenance within " <b>one four hour maintenance block</b> ".  | Please clarify whether it is 14 hrs or 1 block of 4 hrs duration.  | It is one block of four hours.  |

|    |   |      |   |     |       |  |  |   |
|----|---|------|---|-----|-------|--|--|---|
| 28 | 2 | V(B) | 9 | 147 | Note: | Items marked (*) description are indicative only. The bidder shall prepare similar list with items as applicable for the system designed by him and obtain Engineer's approval before supply.  | Please confirm whether unit & quantity of items will remain same.  | Yes.  |
| 29 | 1 | I    |   | 16  | 16.5  | The bid security may be forfeited:<br>(a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bids, except as provided in ITB 15.2 or<br>(b) if a Bidder misrepresents or omits any material the facts in order to unfairly influence the procurement process;<br>(c) if the successful Bidder fails to:<br>i) sign the Contract in accordance with ITB 34;<br>ii) furnish a performance security in accordance with ITB 33;<br>iii) accept the correction of its Bid Price pursuant to ITB 28.2; | We request you to reword the clause as follows:<br>(a) The bid security may be forfeited if<br>(i) a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bids, except as provided in ITB 15.2<br>(ii) if a Bidder misrepresents or omits any material the facts in order to unfairly influence the procurement process;<br>(b) The bid security of the <b>successful Bidder</b> may be forfeited if the successful Bidder fails to:<br>i) sign the Contract in accordance with ITB 34;<br>ii) furnish a performance security in accordance with ITB 33;<br>iii) accept the correction of its Bid Price pursuant to ITB 28.2; | Provisions of the Bid Document shall prevail. |

|    |   |      |   |    |  |   |  |   |
|----|---|------|---|----|--|---|--|---|
| 30 | 2 | V(A) | 5 | 23 | 4 (10)   | Where the Contractor temporarily requires additional land, for the period of construction to facilitate the construction, the contractor shall arrange for the same entirely at his own cost and risk | It is understood that the contractor is allowed to use the land in ROW, if available, for establishing temporary facilities for construction.<br>Kindly confirm. | Please refer para 3.2 of Volume 5, Part 2.    |
| 31 | 3 | VII  |   | 7  | PC 1.9 (b), GC 7.4, GC 10.3 (b), GC 11.8, GC 12.2, GC 12.4, GC 16.1 (b), GC 17.4 (b) | ...payment of any such Cost plus reasonable profit, which shall be included in the Contract Price..   | We request you to specify the reasonable profit percentage that shall be payable to the contractor under the referred clauses for clarity.                       | Provisions of the Bid Document shall prevail. |

|    |   |     |  |    |      |  |  |   |
|----|---|-----|--|----|------|--|--|---|
| 32 | 3 | VII |  | 16 | 13.8 | Ln, "Cn", "Sn", "Un", "Fn", "Mn" and "Rn" are the current cost indices or reference prices for period "n", expressed in the relevant currency of payment, each of which is applicable to the relevant tabulated cost element on the date 49 days prior to the last day of the period, (to which the particular Payment Certificate relates). | Cost indices on the date 49 days prior to the last day of the period (to which the particular Payment Certificate relates) shall not be appropriate for adjustment of prices.<br>We would request you to kindly change the "current cost indices or reference prices for period n" to the relevant RBI indices published in the month for which invoice is submitted by the contractor. This shall help in making PV claims consistent with the actual expenditure incurred as the expenditure and indices correlate to the same period of time. | Provisions of the Bid Document shall prevail. |
| 33 | 1 | II  |  | 27 | 19.1 | Tender Box for submission of Bid shall remain open:<br>From 10:00 Hrs to 17:00 Hrs on all working days upto 15:00 Hrs on 14-12-2012.   | Bid submission date given by DFCC is 14th Dec 2012. This being a design build tender we request DFCC to extend bid submission date till 14th Feb 2013.   | Please refer Addendum no. 2                   |

|    |   |      |   |     |       |   |   |  |
|----|---|------|---|-----|-------|---|---|--|
| 34 | 2 | V(B) | 9 | 44  | 8.5.2 | <p>The following design features of OHE as on Indian Railways may be adopted:</p> <p>a) Normal Encumbrance: (Axial Distance between Contact wire and the Catenary wire in a vertical plane) :1.4m.</p> <p>b) Standard spans in multiples of 4.5 m from a minimum of 27 m to a maximum of 72 m.</p> <p>c) Stagger of Contact Wire:<br/> <input type="checkbox"/> On straight : 200 mm<br/> <input type="checkbox"/> On curved track : 300 mm</p> <p>(d) The maximum distance between anti-creep to the Anchor structure 750m on Indian Railways.</p> <p>(e) Structures: These may be of rolled Steel sections or fabricated.</p> | OHE along with feeder wire is much heavier in the case of 2x25 KV system. Kindly confirm that the contractor shall be permitted to use design parameters different from those mentioned in this paragraph.  | Provisions of the Bid Document shall prevail.  |
| 35 | 2 | V(B) | 9 | 156 | 21.2  | Scope of work shall cover the.....  | 1. During our internal site visit at mathurapur GSS, it was found that a higher capacity Transformer shall be installed to bear this additional load of DFCC. Please convey details of scope of work/agreement covered under enhancement of power capacity with its timeline. | Scope of bay extension work shall be as per clause 21.2 of Volume 9, Section V(B), Part- 2 |

|    |   |      |   |     |             |   |  |                              |
|----|---|------|---|-----|-------------|---|--|------------------------------|
| 36 | 2 | V(B) | 9 | 159 | 21.8.2      | Any special equipment, tools and tackles required for the successful completion of the Commissioning Tests shall be provided by the Contractor, free of cost. | It is assumed that any special equipment, tools and tackles required for the successful completion of the Commissioning Tests shall be arranged for commissioning only by the Contractor, free of cost. Please confirm.  | yes                          |
| 37 | 2 | V(B) | 9 | 127 | Appendix -A | -   | In our opinion, the directions & connections of IR line & DFCC line are not as per the site conditions. Please advise if any corrections are required in the drawing.  | Please refer Addendum no. 2  |
| 38 | 2 | V(B) | 9 | 48  | 8.9.13.1    | Each dropper shall be of bronze strands and two dropper clamps, one of which is connected to the contact wire, and the other to the catenary wire.            | This type of dropper is not used in IR. Please confirm<br>(i) Bronze strands with 2 dropper clamps will be used.<br>(ii) What will be the cross section area of the dropper wire.<br>(iii) Whether it is permitted indigenously or imported.<br>(iv) Whether dropper clips will be self locked or clamps with U-pins for catenary wire and bolted clamp for catenary wire. | Please refer Addendum No. 2. |

|    |   |   |   |    |              |   |   |   |
|----|---|---|---|----|--------------|---|---|---|
| 39 | 1 | I | - | 9  | 3.1 / xii    | .....However, <b>in exceptional cases</b> Bid Security can be accepted subject to giving written confirmation from JV members to the effect, that Bid Security by Lead Member may be deemed as Bid Security submitted by JV Firm. | Kindly clarify what situation shall be considered as exceptional cases by the client.       | Please refer Addendum no. 2   |
| 40 | 1 | I | - | 19 | 21.5 & 21.10 | The Employer shall prepare a record of the opening of Technical Proposals that shall include.....<br><br>The Employer shall prepare a record of the opening of Financial Proposals that shall include.....                        | Kindly confirm that these records will be made available to the contractor for his perusal. | No. However bidders' representative can take note of these records. |

|    |   |                |   |    |     |                                    |   |   |
|----|---|----------------|---|----|-----|------------------------------------|---|---|
| 41 | 3 | VII            | - | 10 | 2.1 | Delete Sub- clause (b) in para 3 . | <p>(a) Kindly retain the sub clause (b) in para 3. Delay in handingover of the workfront requires both an extension in time for completion and compensation of cost which is expended due to staff salaries, idling of P&amp;M, etc.</p> <p>(b) Kindly confirm that when a workfront is handedover to the contractor, it will be encumbrance free &amp; fit for work in all manners. Client will be ensuring that the contractor does not have to face issues from localites, etc.</p> <p>(c) Kindly include a provision under which the contractor shall be entitled to get an extension of time for completion and shall get duly compensated if he finds the workfront to be not free of encumbrances.</p> | Provisions of the Bid Document shall prevail. |
| 42 | 5 | Price Schedule |   |    |     |                                    | Total of all the sub-activities numbered from C2.1 to C2.9 is stated as 100%, whereas, total of Weightage as % of amount in item C2 of Schedule C stands at 94%.  | Please refer Addendum no. 2                   |



|    |   |      |   |     |                |  |   |   |
|----|---|------|---|-----|----------------|--|---|---|
| 43 | 1 | II   |   | 27  | 19.1           | Tender Box for submission of Bid shall remain open:<br>From 10:00 Hrs to 17:00 Hrs on all working days upto 15:00 Hrs on 14-12-2012. | Bid submission date given by DFCC is 14th Dec 2012. As lot of activities required quoaat from foeign vendors which will require more time. This being a design build tender we request DFCC to extend bid submission date atleast till 14th Feb 2013. | Please refer Addendum no. 2   |
| 44 | 1 | V(B) | 9 | 149 | Table 19.2.2-2 | 8 Wheeler tower wagon as per RDSO spec. no TI/SPC/OHE/8WDEIC/0090(02/09) Rev.1   | Specification for the 8Wheeler tower wagon and time of delivery after award of LOA.   | Specification for Tower Wagon may be purchased from RDSO. Please refer Addendum no. 2 for delivery schedule.  |
| 45 | 2 | V(B) | 9 | 201 | Annexure XII   | Specification for 60/84 MVA scott connected transformer and 8MVA auto transfomer   | Specification for the 60/84 MVA scott connected transformer and 8MVA auto transformer are not provided in the tender dcoument. Kindly provde the same.  | Provided during Pre-bid Conference to all the bidders.  |
| 46 | 2 | V(B) | 9 | 199 | Annexure XI    | Interface Matrix for Non Traction Power supply System  | Please provide the electrical loads(Normal & emergency) of lighting(Internal & External), Switch & Sockets, Pumps & any other loads which are in scope of Civil Contractor.   | Drawings for Station building at New Karwandiya, Durgawati & Kudra provided vide Addendum No. 2, loads may be calculated accordingly. For staff quarters at Sasaram, a load of 100 kVA may be considered. |

|    |   |      |   |                  |                                |  |   |   |
|----|---|------|---|------------------|--------------------------------|--|---|---|
| 47 | 2 | V(B) | 9 | 95<br>100<br>105 | 13.10<br>13.13<br>13.16        | Solar Panel<br>DG Set<br>Fire Detection & Alarm System | We assume that Solar Panel, DG Set, Fire Detection & Alarm System are not mentioned in the Interface matrix given on Page no. 199. Please confirm whether above mentioned equipments are in System's package or Civil Contractor's scope.           | Please refer para 13.2.1 of Volume 9, Section V(B), Part 2.                                 |
| 48 | 2 | V(B) | 9 | 200              | Annexure XI Pt. no. 8          | Interface Matrix for Non Traction Power supply System  | We assume that Internal wiring & lighting of level Crossings is in Scope of Civil Contractor. Please confirm  | Please refer Annexure-XI of Volume 9, Section V(B), Part 2. Please refer Addendum No. 2.    |
| 49 | 2 | V(B) | 9 | 200              | Annexure XI pt. no. 5,9        | Interface Matrix for Non Traction Power supply System  | In addition to the items mentioned in pt.no. 5 & 9 of Interface matrix, we assume that all other external lighting is also in Scope of Civil Contractor. Please confirm   | Please refer Interface matrix in Annexure XI and para 13 of Volume 9, Section V(B), Part 2. |
| 50 | 2 | V(B) | 9 | 199              | Annexure XI pt no. 1 h) & 4 a) | Interface Matrix for Non Traction Power supply System  | Pt. no. 1h) shows that System's Contractor is responsible for supply & erection of MDB whereas pt. no. 4a) shows that Civil Contractor is responsible for supply & erection of MDB. Both points seem contradictory from each other. Please Clarify. | Provisions of the Bid Document shall prevail.   |

|    |   |      |   |     |  |   |  |   |
|----|---|------|---|-----|--|---|--|---|
| 51 | 2 | V(B) | 9 | 141 | Pt. no. 3 of Indicative Interface matrix with Civil & Track Contractor | System Contractor- For OHE work central line of track would be taken from track contractor<br>Track Contractor- He will give the central line of track to system contractor for mast foundation and other erection.   | 1. How will this interface take place?<br>2. Please provide the date for availability of Track centre line.  | 1. Please refer para 4.6 of General Conditions of Contract, Section VI, Part 3.<br>2. Please refer sub-clause 2.1 of appendix to Tender of Section VII, Part 3 and para 18.2.2 of Volume 9, Section V(B), Part 2. |
| 52 | 2 | V(B) | 9 | 141 | Pt. no. 5 of Indicative Interface matrix with Civil & Track Contractor | System Contractor- The track contractor shall be doing mechanized track laying as per scheduled plan approved by PMC. System contractor shall devise his work plan as per those agreed time schedules. He shall also advise the minimum time required for execution of work after obtaining access to the site. | It is requested that this time schedule which is considered as minimum time required for execution of work after obtaining access to the site may please be given by DFCC before bid submission. | This is System contractor's assessment. Please refer milestones and completion periods defined in sub-clause 8.2 of Appendix to Tender of Section VII, Part 3 are to be followed.                                 |
| 53 | 2 | V(B) | 9 | 144 | 18.2.1 f)  | Control Room for 24X7 hour monitoring of the charged sections and its patrolling. Communication facility to enable monitoring of the OHE and management of Permit TO Work (P.T.W.).   | Being a high alarm project, it is suggested that para-military force security( such as CISF) may please be arranged from DFCC side to achieve & ensure TDC.                                      | Provisions of the Bid Document shall prevail.   |

|    |   |      |   |         |    |   |   |                             |
|----|---|------|---|---------|----|---|---|-----------------------------|
| 54 | 2 | V(B) | 9 | 145-151 | 19 | Supply of spares, tools & measuring Instruments | While going through the list, it is our opinion that some items are not relevant to 2x25 KV system being adopted in EDFCC. We assume that the qauntity will remain same as mentioned but specifications may change. Please confirm. | Please refer Addendum no. 2 |
|----|---|------|---|---------|----|---|---|-----------------------------|

|    |   |     |  |    |      |  |  |   |
|----|---|-----|--|----|------|--|--|---|
| 55 | 3 | VII |  | 17 | 13.8 | <p>The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the amount certified in Payment Certificates for cost centres (sub clause 14.4), shall be determined from formulae.</p> <p>The formula for adjustment .....</p> $P_n = a + b(L_n/L_0) + c(M_n/M_0) + d(U_n/U_0) \dots\dots$ <p>.....price is normally published in US \$ per US gallon, which is converted in Rs/K.Ltr. With applicable exchange rate prevailing on first working day of the subsequent month.</p> | <p>1. The PV formula doesnot cover the price variations of cement and P&amp;M. Also, the material component has been clubbed, hence it will not be able to correctly cover variations in steel, Non-ferrous metal and other material. For example, for steel item supply, major component i.e. approx. 75% shall be covered under 'c'. However, at present it is only 40%. So it is requested to:</p> <ul style="list-style-type: none"> <li>- change the values of a,b,c and d suitably with a = 0.14, as fixed component can never be 0.4 or 0.3</li> <li>- include steel, cement, P&amp;M, other material and non-ferrous material alongwith existing factors of labour &amp; fuel.</li> </ul> <p>2. It is also requested to include IEEMA PV formulae for steel structures and signalling cables separately like it has been done for contact / catenary wires and transformers. This will be suitable to both employer as well as the</p> | Provisions of the Bid Document shall prevail. |
|----|---|-----|--|----|------|--|--|---|

|    |   |      |   |     |  |   |  |   |
|----|---|------|---|-----|--|---|--|---|
| 56 | 2 | V(B) | 9 | 152 | 20   |   | Please confirm if the 132kV connection from BSEB to New Karwandiya TSS has to be through overhead transmission line only, or HT cable can also be used for the transmission? Kindly confirm. If HT cable is allowed, it is requested to include cost centres for cabling also as an alternate option to transmission line. | Provisions in the Bid Document shall prevail. |
| 57 | 2 | V(B) | 9 | 152 | 20.1.1   | The work involves Design ,Supply, Erection , Testing and Commissioning of 132 kV 3 phase Double Circuit Transmission Line ( <b>Approx. 12 Km</b> ) from 220kV Mathurapur Grid Substation of BSEB to New Karawandiya TSS as per the Specification, Standards and latest practices adopted by BSEB. The BSEB specification for construction of 132 kV transmission line is given in part 4. | The clause states that the approx. length of the transmission line is 12km. It is assumed that if actual quantity is found to be more than 12km, the extra length shall be paid separately in addition to Bid price. Please confirm.   | No.   |
| 58 | 5 |      |   | 73  | Price Schedule C9 (Electrical works) / SCADA works | SCADA works as per Employer's requirement.  | It is assumed that only traction SCADA is covered under this cost centre. SCADA for non-traction power supply is covered under Price Schedule C8 (General Power supply E&M). Please confirm.   | Yes.  |

|    |   |  |  |    |  |  |   |   |
|----|---|--|--|----|--|--|---|---|
| 59 | 5 |  |  | 11 | Price Schedule C2 / OHE Works                                  |  | <p>It is requested to include:</p> <ol style="list-style-type: none"> <li>1. supply of feeder wire at site</li> <li>2. supply of aerial earth wire at site</li> <li>3. Supply of structures and SPS at site</li> <li>4. Supply of insulators at site as interim cost-centres like C2.1 and C2.2.</li> </ol> | Provisions of the bid document shall prevail. |
| 60 | 5 |  |  |    | Price Schedule C2.5 / Supply & erection of cantilever assembly |  | <p>It is requested to split C2.5 in two separate sub-cost centres for supply of cantilever assembly and erection of cantilever assembly.</p>  | Provisions of the bid document shall prevail. |

|    |   |  |  |  |   |   |   |
|----|---|--|--|--|---|---|---|
| 61 | 5 |  |  |  | Price Schedule C2.6 / Completion of Wiring                          | <p>It is requested to split C2.6 in following separate sub-cost centres:</p> <p>C2.6.1 - on completion of contact and catenary wiring</p> <p>C2.6.2 - on installation of aerial earth wire and feeder wire</p> <p>C2.6.3 - on completion of droppering and clipping</p> <p>C2.6.4 - on completion of termination arrangement installation</p>   | Provisions of the bid document shall prevail. |
| 62 | 5 |  |  |  | Price Schedule C2.7 / Supply & erection of section insulators/PTFEs | <p>It is requested to split C2.7 in following separate sub-cost centres:</p> <p>C2.7.1 - on supply of section insulators/PTFEs at site</p> <p>C2.7.2 - on supply of isolators including all fittings at site</p> <p>C2.7.3 - on erection of section insulators/PTFEs at site</p> <p>C2.7.4 - on erection of isolators including all fittings at site</p> <p>C2.7.5 - on Supply &amp; erection of Earthing &amp; bonding arrangement</p> <p>C2.7.6 - On completion of final adjustment &amp; SED checking.</p> | Provisions of bid document shall prevail.     |



|    |   |  |  |    |   |  |   |   |
|----|---|--|--|----|---|--|---|---|
| 63 | 5 |  |  |    | Price Schedule C2.8 / Supply & erection of ATs including change over switch |  | It is requested to split C2.8 in following separate sub-cost centres:<br>C2.8.1 - On Supply of ATs including change over switch<br>C2.8.2 - On erection of ATs including cabling, change over switch                                | Provisions of the bid document shall prevail. |
| 64 | 5 |  |  |    | Price Schedule C2.9 / Tower wagon checking & commissioning                  |  | It is requested to split C2.9 in following separate sub-cost centres:<br>C2.9.1 - Tower wagon checking / pantograph checking<br>C2.9.2 - Testing and commissioning/energization of OHE System                                       | Provisions of the bid document shall prevail. |
| 65 | 5 |  |  | 13 | Price Schedule C3 / 132kV Double circuit transmission line                  |  | It is requested to include:<br>1. supply of conductors at site<br>2. supply of earth wire at site<br>3. Supply of insulators at site<br>4. Supply of galvanized steel towers at site<br>as interim cost-centres like C3.1 and C3.2. | Provisions of bid document shall prevail.     |

|    |   |  |  |    |   |  |   |   |
|----|---|--|--|----|---|--|---|---|
| 66 | 5 |  |  | 14 | Price Schedule C4 / 132kV Bay extension   |  | It is requested to include:<br>1. Supply of galvanized steel structures and SPS at site as interim cost-centres like C4.1 and C4.2.   | Provisions of the bid document shall prevail. |
| 67 | 5 |  |  | 14 | Price Schedule C4.3 / 132kV Bay extension |  | It is requested to split C4.3 in following separate sub-cost centres:<br>C4.3.1 - On completion of supply of all equipment including PLCC and control & relay panel<br>C4.3.2 - On completion of erection of all equipment including PLCC and control & relay panel | Provisions of the bid document shall prevail. |
| 68 | 5 |  |  | 16 | Price Schedule C5 / Traction Sub-station  |  | It is requested to include:<br>1. Supply of galvanized steel structures and SPS at site<br>2. On supply of switchgears and control gears, Control & relay panel and bus bars at site<br>3. On supply of cable at site as interim cost-centres like C5.1 and C5.2.   | Provisions of the bid document shall prevail. |

|    |   |  |  |    |   |  |   |   |
|----|---|--|--|----|---|--|---|---|
| 69 | 5 |  |  | 18 | Price Schedule C6 / Sectioning Post (SP)                |  | It is requested to include:<br>1. Supply of galvanized steel structures and SPS at site<br>2. On supply of switchgears and control gears, Control & relay panel and bus bars at site<br>3. On supply of cable at site as interim cost-centres like C6.1 and C6.2. | Provisions of bid document shall prevail. |
| 70 | 5 |  |  | 19 | Price Schedule C7 / Sectioning & Paralleling Post (SSP) |  | It is requested to include:<br>1. Supply of galvanized steel structures and SPS at site<br>2. On supply of switchgears and control gears, Control & relay panel and bus bars at site<br>3. On supply of cable at site as interim cost-centres like C7.1 and C7.2. | Provisions of bid document shall prevail. |

|    |   |  |  |    |  |  |   |   |
|----|---|--|--|----|--|--|---|---|
| 71 | 5 |  |  | 21 | Price Schedule C8 / General Power Supply works (E&M) |  | <p>As this is huge item and has considerable financial implication, it is requested to break it to following sub-cost centres:</p> <p>C8.1 - on supply of transformers at site</p> <p>C8.2 - on supply of HV switchgears at site</p> <p>C8.3 - on supply of LV switchgears &amp; APFC panels at site</p> <p>C8.4 - on supply of DG sets at site</p> <p>C8.5 - on supply of HT cables at site</p> <p>C8.6 - on supply of LV cables at site</p> <p>C8.7 - on completion of Electrification of staff quarters</p> <p>C8.8 - on completion of Electrification of station &amp; service buildings including platform</p> <p>C8.9 - On completion of all remaining general electrical works at all stations</p> <p>C8.10 - Testing and commissioning/Energization</p> | Provisions of the bid document shall prevail. |
|----|---|--|--|----|--|--|---|---|

|    |   |      |   |     |  |   |  |   |
|----|---|------|---|-----|--|---|--|---|
| 72 | 5 |      |   | 22  | Price Schedule C9 / SCADA Works                    |   | As this is huge item and has considerable financial implication, it is requested to break it to following sub-cost centres:<br>C9.1 - on supply of RTUs at site<br>C9.2 - on supply of UPS and battery at site<br>C9.3 - On completion of installation of complete equipment for SCADA<br>C9.4 - SCADA Testing & commissioning | Provisions of bid document shall prevail. |
| 73 | 5 |      |   | 24  | Price Schedule C11 / Supply of T&P, M&P and Spares | Price Schedule C11.4 / Supply of Tower wagon as per RDSO sepcification & its commissioning. | It is requested to split C11.4 in following separate sub-cost centres:<br>C11.4.1 - On Supply of Tower Wagon (8 Wheeler) as per RDSO specification<br>C11.4.2 - On completion of Tower Wagon commissioning at rated speed  | Please refer Addendum no. 2               |
| 74 | 2 | V(B) | 9 | 106 | 13.16  | Fire Detection and Alarm system.  | From the specs given, it is understood that hydrant system & sprinkler system are not part of the bidder's scope of work. Please confirm.  | Please refer Addendum No.2.               |

|    |                  |                                     |  |    |         |   |   |   |
|----|------------------|-------------------------------------|--|----|---------|---|---|---|
| 75 | Part 1           | Section I & II                      | Instructions to Bidders & Bid Data Sheet | 16 | 16 & 27 | <p><b><u>Bid Security:</u></b><br/>The Bidder should submit along with the bid, a bid security for Rs.1.0 crore (Rupees One Crore only) in the shape of a FDR (Fixed deposit receipt), Demand Draft/Banker's Cheque in favour of "Dedicated Freight Corridor Corporation of India Ltd., New Delhi" from SBI/Nationalized/Scheduled Bank of India in original form.</p>  | We request to kindly accept Bank Guarantee for the same value as Bid Security, valid for a period upto 60 (sixty) days beyond the original validity period of the bid, or beyond any period of extension if requested under 15.2  | Provisions of the bid document shall prevail.   |
| 76 | Part 1<br>Part 5 | Section I<br>Price<br>Schedule<br>s | Instructions to Bidders & Preambles      | 12 | 15 & 4  | <p><b><u>Bid Prices</u></b><br/>The bidder shall quote the lump sum cost for the entire work in BDF-10 &amp; schedule A as contained in Part -5 of the Bid Document. The cost should cover all the items of the work as detailed in the employer's requirement of the contract.</p> <p>The cost should also be inclusive of all constructional Equipment, plant, labour, supervision, materials, erection, insurance, profit, duties, taxes, levies, royalties together with all general risks, liabilities and obligations set out or implied in the Contract under the applicable law as on the date of opening of bid.</p> | We request that in case any changes of taxes, levies, duties, cess, insurance and all other incidental charges required to fulfill the contract requirements including statutory deduction or increasing viz., TDS towards Income Tax T/Works Contract Tax etc, the Contract Price shall be adjusted accordingly. | Please refer clause 13.7 of Section VII, Part 3 |

|    |        |             |  |   |    |   |  |  |
|----|--------|-------------|--|---|----|---|--|--|
| 77 | Part 3 | Section VII | Particular conditions (Appendix to tender) | 1 | 28 | <b>Defects Notification Period:</b><br>Defect Notification Period for the Works shall be two year from the date of Taking Over of the Works (Sub-clause 10.1) and issue of Taking-Over Certificate by the Engineer. | We understand that the defect liability period shall be 24 months from the date of taking over certificate, of the respective section of work. Please confirm our understanding and modify the clause accordingly. | Please refer para 10.1 and 10.2 of Section VI, Part 3. |
| 78 | Part 3 | Section VII | Particular conditions                      | 5 | 11 | <b>General Design Obligation</b>  | We request in paragraph 1, delete 3rd sentence.<br><br>In paragraph 2, delete 2nd sentence.<br><br>In paragraph 4, delete 2nd sentence.  | Provisions of the bid document shall prevail.          |
| 79 | Part 3 | Section VII | Particular conditions                      | 8 | 13 | <b>Time for Completion:</b>   | Please confirm our understanding as below;<br>The completion period for whole of works will be 810 days from the date of commencement.<br>Thereafter DLP of two years is applicable.                               | Please refer reply to query no. 77 above.              |

|    |        |             |  |    |    |   |   |   |
|----|--------|-------------|--|----|----|---|---|---|
| 80 | Part 3 | Section VII | Particular conditions                      | 14 | 22 | <p><b><u>Contract Price</u></b></p> <p>The Contract Price includes all duties, taxes, royalties, premiums for various insurances, licenses and fees that may be levied in accordance with the laws and regulations in force as on the Base Date on the Contractor's Equipment, Plant, Materials and supplies acquired for the purpose of the Contract and on the services performed under the Contract.</p> <p>Nothing in the Contract shall relieve the Contractor from its responsibility to pay any tax including any tax that may be levied in India on profits made by it in respect of the Contract</p> | Please confirm whether DFCCIL will issue Form "C" - concessional sales tax form | No  |
| 81 | Part 3 | Section VII | Particular conditions (Appendix to tender) | 18 | 30 | Minimum amount of third party Insurance Rs. 50 lakhs for any one occurrence.  | Please specify maximum limit for number of events                               | Provisions of the bid document shall prevail. |



|    |        |             |  |    |   |   |   |
|----|--------|-------------|--|----|---|---|---|
| 82 | Part 3 | Section VII | Particular conditions (Appendix to tender) | 29 | The Employer shall pay on written request by the Contractor a Mobilization Advance up to (Ten) 10 per cent of the Contract Price at an interest rate of 4.5% per annum above the base rate of State Bank of India as effective on the date of approval of payment of mobilization advance by the competent authority, compounded yearly.  | We request you to waive-off the interest.   | Provisions of the bid document shall prevail. |
| 83 | NA     |             | G.C.C. - FIDIC Yellow Book                 | 11 | <b><u>Compliance with Law :</u></b><br>(b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the Laws in relation to the design, execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Employer harmless against and from the consequences of any failure to do so. | We request to Insert at the end of Sub-Clause 1.13:<br><br>However, the Contractor shall submit, in good time, the details of Goods to the Employer, who shall then promptly obtain all import permits or licences required for these Goods.<br><br>The Employer shall also obtain or grant all consents including permits-to-work, rights-of-way and approvals required for the Works. | Provisions of the bid document shall prevail. |

|    |    |  |   |    |  |  |   |
|----|----|--|---|----|--|--|---|
| 84 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 12 | <b><u>Permits, Licences or Approvals</u></b>   | We request DFCCIL to issue the necessary Road Permit/Octroi Exemption Certificate, if applicable for transporting the project related material / equipments in the respective states | Provisions of the bid document shall prevail. |
| 85 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 13 | <b><u>Employers' claim</u></b><br><b><u>Para (2)</u></b> The notice shall be given as soon as practicable after the Employer became aware of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period. | We request you to Insert in paragraph 2, behind the words "as soon as practicable":<br><br>,and not later than 28 days   | Provisions of bid document shall prevail.     |
| 86 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 16 | <b><u>Contractor's General Obligations:</u></b><br>The Contractor shall design, execute and complete the Works in accordance with the Contract, and shall remedy any defects in the Works. When completed, the Works shall be fit for the purposes for which the Works are intended as defined in the Contract.          | We request to Delete paragraph 1, 2nd sentence.  | Provisions in the bid document shall prevail. |

|    |    |  |   |  |    |                                    |  |   |
|----|----|--|---|--|----|------------------------------------|--|---|
| 87 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 |  | 18 | <b>Contractor's Representative</b> | We request to delete paragraphs 2 and 3.   | Provisions in the bid document shall prevail. |
| 88 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 |  | 18 | <b>Subcontractors</b>              | We request to insert at the end of Sub-Clause 4.4:<br><br>However, prior consent shall not be required if the value of the subcontract is less than ... percent (... %) of the Accepted Contract Amount. | Provisions of the bid document shall prevail. |
| 89 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 |  | 18 | <b>Nominated Subcontractors</b>    | We request to delete Sub-Clause 4.5.   | Provisions of the bid document shall prevail. |

|    |    |  |   |    |                     |  |   |
|----|----|--|---|----|---------------------|--|---|
| 90 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 18 | <b>Co-operation</b> | <p>We request to delete Sub-Clause 4.6 and substitute:</p> <p>The Contractor shall, in accordance with the Engineer's instructions, afford to other contractors engaged by the Employer to work on the Site and persons lawfully upon the Site all reasonable opportunities for carrying out their work provided that the same shall not obstruct or disturb the progress of the Works and, when leaving his area of work, clean-up such part of the Site. The Contractor shall also afford such opportunities to the employees of the Employer.</p> <p>If the Contractor, on the written request of the Engineer, makes available any Contractor's Equipment or provides any other service, the Employer shall pay the Contractor accordingly. The amount to be paid shall be certified by the Engineer and</p> | Provisions of the bid document shall prevail. |
|----|----|--|---|----|---------------------|--|---|

|    |    |  |   |    |                  |   |   |
|----|----|--|---|----|------------------|---|---|
| 91 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 19 | <b>Site Data</b> | <p>We request to delete Sub-Clause 4.10 and substitute:</p> <p>The Tender shall be deemed to have been based on such data on climatic, hydrological and general conditions on the Site and for the operation of the Works as the Employer or the Engineer has made available to the Contractor for the purposes of the Tender. The Contractor shall be responsible for his own interpretation of such data.</p> | Provisions of the bid document shall prevail. |
|----|----|--|---|----|------------------|---|---|

|    |    |  |   |    |                     |  |   |
|----|----|--|---|----|---------------------|--|---|
| 92 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 20 | <b>Access Route</b> | <p>We request to Delete paragraph 1, 1st sentence.</p> <p>Delete paragraph 2, including sub-paragraphs (a) to (e), and substitute:</p> <p>However, if the Contractor encounters non-suitability or non-availability, for the use required by the Contractor, of access routes, gives a notice to the Engineer as soon as practicable describing the relevant circumstances, and suffers delay and/or incurs Cost due to these circumstances, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:</p> <p>(a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and</p> <p>(b) payment of any such Cost, which shall be included in the Contract Price.</p> | Provisions of the bid document shall prevail. |
|----|----|--|---|----|---------------------|--|---|

|    |    |  |   |    |                                   |  |   |
|----|----|--|---|----|-----------------------------------|--|---|
| 93 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 24 | <b>Electricity, Water and Gas</b> | <p>We request to delete paragraphs 1 and 2 and substitute:</p> <p>The Employer shall be responsible for the provision of all power, water and other services the Contractor may reasonably require. The Contractor shall be entitled to use for the purposes of the Works and for the accommodation of the Contractor's and his Subcontractor's Personnel such supplies of electricity, water, gas and other services, the details and prices of which are given in the Employer's Requirements.</p> | Provisions of the bid document shall prevail. |
| 94 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 26 | <b>Security of the Site</b>       | <p>We request you in sub-paragraph (a), delete the word "Contractor" and substitute:</p> <p>Employer</p>   | Provisions of bid document shall prevail.     |

|    |    |  |   |    |                         |  |   |
|----|----|--|---|----|-------------------------|--|---|
| 95 | NA |  | G.C.C. -<br>FIDIC<br>Yellow<br>Book<br>1999 | 66 | Termination by employer | <p>We request, at the end of paragraph 2 ("... may by notice terminate the Contract immediately."), add:</p> <p>In any case, and notwithstanding the above, Employer's right to terminate the Contract hereunder shall be subject to the express proviso that the Employer cannot reasonably be expected to remain bound by the Contract.</p> <p>Delete paragraph 3 ("... shall not prejudice any other rights ...") and substitute:</p> <p>The Employer's election to terminate the Contract shall be in lieu of and to the exclusion of any rights of the Employer, under the Contract or otherwise, other than provided in Sub-Clause 15.4 [Payment after Termination].</p> | Provisions of the bid document shall prevail. |
|----|----|--|---|----|-------------------------|--|---|



|    |    |                       |                                 |    |        |  |  |  |
|----|----|-----------------------|---------------------------------|----|--------|--|--|--|
| 96 | NA |                       | G.C.C. - FIDIC Yellow Book 1999 |    | 67-68  | Employer's Entitlement to Termination  | We request to Insert at the end of Sub-Clause 15.5:<br><br>The Employer shall also pay to the Contractor the amount of any loss of profit or other loss or damage resulting from this termination.     | Provisions in the bid document shall prevail.  |
| 97 | 2  | Section 5(B) Volume 9 |                                 | 46 | 8.8.5  | Aerial Earth Wire and Buried Earth Conductor   | 1. Kindly confirm the requirement of both Aerial Earth Wire and Buried Earth Conductor.<br>2. Kindly confirm the availability of defined BEC path made available by civil contractors along the track. | 1)Please refer table no. 8.8 -1 & para 8.8.5.2 of Volume 9, Section V(B), Part-2. Please refer Addendum No. 2. |
| 98 | 2  | Section V(B) Volume 9 |                                 | 48 | 8.10.1 | The contractor shall adopt fittings as per RDSO Specification for conventional cantilever system on DFCC. This system shall be compatible with the footprint of the existing Indian Railway OHE Mast / Portal designs so that existing cantilever assemblies are interchangeable with the IR Assemblies. | It is requested to accept alternate options available in cantilevers like the following which are in use in railway traction outside India.<br>1. Aluminium<br>2. Modular                              | Provisions of the bid document shall prevail.  |
| 99 | 2  | Section V(B) Volume 9 |                                 | 48 | 8.10.2 | The number of components and their sizes shall be as few as possible.  | Reduction in number of components and their sizes shall be possible only if DFCC permits to use components which are in use outside India.   | It can still be reduced.   |

|     |   |                          |  |    |        |  |   |   |
|-----|---|--------------------------|--|----|--------|--|---|---|
| 100 | 2 | Section 5(B)<br>Volume 9 |  | 49 | 8.12   | Auto Tensioning Devices as per RDSO Specification No. TI/SPC/OHE/ATD/0060 (08/06) with latest amendments.  | Request to permit use of ATD available in use outside India in other railway networks.  | Provisions of the bid document shall prevail. |
| 101 | 2 | Section 5(B)<br>Volume 9 |  | 50 | 8.15.2 | For Methods of Designs of Structures and Foundations, Indian Railways Design Manual for Electric traction shall be followed. The Concrete for the foundations shall be of Mix M15 with proportion as given in IS 456. For grouting, muffing, and embedment of structures in concrete the nominal mix of the concrete shall be M20. Volume of batching shall be adopted as per IS 456. The foundation design shall be based on structural loading calculations at each structure location | The standard practice adopted in IR electrification contracts for concrete is as under:<br>1. Foundations - M10 mix<br>2. Grouting, muffing & embedment of strutures is M15.<br>It is therefore requested to modify this clause suitably so that uniformity is maintained with the design of RDSO & IR. | Please refer Addendum no. 2                   |

|     |   |                          |  |    |         |   |   |  |
|-----|---|--------------------------|--|----|---------|---|---|--|
| 102 | 2 | Section 5(B)<br>Volume 9 |  | 52 | 8.17.1  | All Insulators shall be suitable for use in tropical environment. In polluted and vandalism prone areas silicone insulators conforming to RDSO Specification No. TI/SPC/OHE/INSCOM/1070(01/07) shall be provided and all other places only porcelain insulator conforming to RDSO Specification No. TI/SPC/OHE/INS/0070(04/07) shall be provided. | Our understanding is that the bidder should use composite insulators of 1050mm creepage distance. Kindly confirm our understanding. | Provisions of the bid document shall prevail.                                    |
| 103 | 2 | Section 5(B)<br>Volume 9 |  | 55 | 8.21.1c | c) Pegging Plans.<br>The pegging plan for sections to be equipped indicating the type of overhead equipment, locations and size of masts, span lengths used and other general particulars. On-site verification of the pegging plans shall be carried out and based on final pegging plan, OHE layout diagram shall be prepared.                  | We understand that in IR contracts pegging plans are issued to the bidder by the client. Kindly confirm our understanding.          | Provisions of the bid document shall prevail.                                    |
| 104 | 2 | Section 5(B)<br>Volume 9 |  | 55 | 8.21.1d | Detailed sectioning diagram drawn to a convenient scale showing section insulator number, switches, elementary sections and connections to Switching Stations.  | We understand that switches indicated here is manual operated. Please confirm our understanding.                                    | All isolators shall be "manually operated" only.<br>Please refer Addendum no. 2. |

|     |   |                          |  |     |         |   |   |  |
|-----|---|--------------------------|--|-----|---------|---|---|--|
| 105 | 2 | Section 5(B)<br>Volume 9 |  | 153 | 20.5.1  | <p>The contractor will arrange the right of way/necessary working clearance of trees and other obstructions on either side of the alignment of the line including cutting/trimming of trees falling in the required corridor of Transmission Line and obtaining their Statutory clearance. During the construction works, there may be unavoidable damage to crops, trees etc. both in erection of the line and making temporary approach roads to the line. Compensation on this account, if any will be paid directly by the contractor. Any avoidable or deliberate damage done to standing crops or private property by the contractor's laborers shall be contractor's responsibility.</p> | <p>Time is the Essence of this Contract. Therefore , It is requested that, Obtaining Right of Way/Necessary Clearances, Tree Cutting &amp; removal of other Obstructions required along the Corridor of Transmission line may please be carried out by DFCC, Since the dealings will be easier through Government agency However the Contractor can provide the necessary Logistic Support required if any.</p> <p>Since Estimation of Unavoidable damages like Crop Compensation, Tree trimming, Cutting, Making Temporary roads, will be difficult at this point of time. It is requested to reimburse the Expenses at actuals against documentary proof to the Bidder.</p> | Provisions of the bid document shall prevail.                            |
| 106 | 2 | Section 5(B)<br>Volume 9 |  | 24  | 6.1.2.2 | Power Quality correction equipment for power factor, harmonics and unbalance  | Please provide limits for power factor, harmonics and unbalance   | Please refer para 7.2.8 & Annexure-IX of Volume 9, Section V(B), Part-2. |

|     |        |                          |  |         |               |  |  |   |
|-----|--------|--------------------------|--|---------|---------------|--|--|---|
| 107 | 2      | Section 5(B)<br>Volume 9 |  | 26 & 28 | 6.3.1 & 6.5.2 | Fault level for 25kV System is indicated as 6kA in Clause 6.3.1 & 12kA in Clause 6.5.2 | Please Clarify   | Please refer Addendum no. 2   |
| 108 | Part 2 | Section 5(B)<br>Volume 9 |  | 127     | Appendix B    | Appendix B   | Please define future infeed arrangements from adjacent sections.   | Please refer Addendum no. 2   |
| 109 | Part 2 | Section 5(B)<br>Volume 9 |  | 18      | 4.7           | Train Power Supply Performance Requirements - Entire subsection                        | <p>a) Are the performance characteristics described intended to be met by the single TSS arrangement?</p> <p>b) Will this section of track receive infeed from adjacent sections once they are constructed?</p> <p>c) Should impact of these adjacent infeeds be considered in meeting the performance requirements? If so, please provide details of adjacent feeding arrangements?</p> | <p>a) No</p> <p>b) Yes</p> <p>c) Please refer reply to query no. 108.</p> |
| 110 | Part 2 | Section 5(B)<br>Volume 9 |  | 33      | 7.1.3         | Table 7.1.3-1  | Are any additional locations for TSS available for the line or must the performance requirements be achieved by the single TSS in the nominated location? Are there any possibilities for the inclusion of a second TSS?   | Please refer reply to query no. 108.                                      |

|     |        |                          |   |    |         |   |   |  |
|-----|--------|--------------------------|---|----|---------|---|---|--|
| 111 | Part 2 | Section 5(B)<br>Volume 9 |   | 46 | 8.8.1   | TABLE: No 8.8 -1<br>OHE Conductors for Main Lines for each track  | Can alternate Feeder Wire diameters be supplied in accordance with the results of load flow studies?  | Yes, however, minimum diameter should be as indicated in the table 8.8.1             |
| 112 | 2      | V(B)                     | 7 | 6  | 1.3.4.1 | The section shall be opened in phases, initially .....  | The Phase implementation of Works is not clear. Phase-1 Absolute block System, Phase-2 Automatic Block System. Kindly clarify the requirement of Phase Working by DFCCIL. | Details of Phase Working given in Clause 1.3.4.1 of PS (Signalling).                 |
| 113 | 2      | V(B)                     | 7 | 5  | 1.3.2.1 | The Signaling system includes .....   | Please Clarify the Technical Requirement & Location for CTC.  | Clause 1.3.2.1 of PS (Signalling) is self explanatory.                               |
| 114 | 2      | V(B)                     | 7 | 16 | 3.3.5   | Automatic Block signalling shall be provided with nominal signal spacing of 2 Kms.  | Can we alter the spacing of 2 Km for ABS to suit the Headway Calculation?   | Nominal Signal Spacing of 2 Km as per Clause 3.3.5 of PS (Signalling) shall prevail. |
| 115 | 2      | V(B)                     | 7 | 22 | 5.1.4.1 | No Control Terminal is needed. Status of automatic signal and track vacancy detection shall be displayed on the VDU display of adjacent block stations. | Kindly clarify whether the indication of Auto signal are required on VDU, if yes please clarify the location  | Clause 5.1.4.1 of PS (Signalling) is self explanatory.                               |
| 116 | 2      | V(B)                     | 7 | 30 | 5.3.1.7 | Consecutive ATs .....   | The spacing for Aux-Transformer is now fixed to 4 Kms. Can we change this distance (+/-) as per System Requirement.   | Change can be made as per system requirement with the approval of Engineer.          |
| 117 | 2      | V(B)                     | 7 | 6  | 1.3.2.1 |   | Kindly clarify the No. Of aspects required for Auto Signals. Also clarify the operation requirement for calculating Shunt & Calling On Signals in Station Area.           | Please refer to Clause 5.5.1, 5.5.2 and 5.5.3 of PS(Signalling).                     |

|     |   |      |   |    |         |  |  |  |
|-----|---|------|---|----|---------|--|--|--|
| 118 | 2 | V(B) | 7 | 6  | 1.3.4.1 |  | Kindly clarify what type of interlocking of LC Gates is required during Phase-1.   | Please refer to Clause 1.3.4.1 and Annexure-6 of PS(Signalling).   |
| 119 | 2 | V(B) | 7 | 4  | 1.1.4   |  | Which type of interface / relay block interface has to be interconnected with the DFCC line?   | Please refer to Clause 1.3.4.1 of PS(Signalling).  |
| 120 | 2 | V(B) | 7 | 5  | 1.3.2.1 |  | At which location the future CTC (not scope of the current project) shall be situated?   | The question is not relevant to present 'Scope of Work'.   |
| 121 | 2 | V(B) | 7 | 5  | 1.3.2.1 |  | We assume that the network connection to this future CTC location is not part of the current project?  | The question is not relevant to present 'Scope of Work'.   |
| 122 | 2 | V(B) | 7 | 5  | 1.3.2.1 |  | At which locations the local operator workplaces shall be installed?   | Control Terminal with VDU Display for Station Interlocking shall be provided in SM/ASM Room of the concerned Station as per Clause 5.1.3 of PS(Signalling). Domino type CCIP for Level Crossing Gate Interlocking shall be provided in Gate Goomty of concerned LC Gate as per Clause 5.1.5 of PS(Signalling). |
| 123 | 2 | V(B) | 7 | 15 | 3.1.2   |  | k. System safety: The requirement on SIL4 is not explicit mentioned within the tender. Must the signalling system (interlocking) meet the requirement on SIL4? | The requirement of SIL4 is covered in individual RDSO Specification for the Signalling Equipment.  |

|     |   |      |   |    |           |   |  |
|-----|---|------|---|----|-----------|---|--|
| 124 | 2 | V(B) | 7 | 16 | 3.3.5     | Is the automatic block signal spacing of 2km fixed or can it vary f.e. as a result of a headway calculation? What is the design speed?                    | Nominal Signal Spacing shall be as per Clause 3.3.5 of PS (Signalling). Maximum Speed Potential ( Service speed) on Main Line is 100 Kmph. Please refer to Addendum No.2 |
| 125 | 2 | V(B) | 7 | 16 | 3.3.6     | Please can you further detail/explain this requirement?   | Railway Board's Gazette Notification can be collected from the office of GM/S&T/EC   |
| 126 | 2 | V(B) | 7 | 19 | 4.1.5     | What type of protection measures against theft of equipment and cabling are preferred by the customer?  | Suitable protection measures as per requirement of PS(Signalling) to be proposed by the contractor during design stage and approved by the Engineer.                     |
| 127 | 2 | V(B) | 7 | 30 | 5.3.1.2   | Are there signalling solutions accepted where space between the AUX- Transformers is extended to more than 4 km in order to reduce cabling and equipment? | Change can be made as per system requirement with the approval of Engineer.  |
| 128 | 2 | V(B) | 7 | 34 | 5.4.2.1   | Where is Gate Goomty, where CCIP shall be placed?   | CCIP will be in Gate Goomty of the concerned LC Gate in IR/DFCC Territory.   |
| 129 | 2 | V(B) | 7 | 40 | 5.6.6.4-5 | Where will we find sandy, where rocky areas? - within the 66kms?  | Refer Clause 12.0 Vol 2 of GS and Clause 4.10 of GCC and PCC.  |
| 130 | 2 | V(B) | 7 | 40 | 5.6.6.6   | What does "DWC" in DWC-HDPE pipes stand for?  | DWC stands for "Double Walled Corrugated".   |



|     |   |      |   |    |          |   |   |
|-----|---|------|---|----|----------|---|---|
| 131 | 2 | V(B) | 7 | 42 | 5.6.6.24 | Which requirements contains chapter XXII of IRSEM concerning parallelism of various circuits?   | Query is not clear.   |
| 132 | 2 | V(B) | 7 | 47 | 5.9      | Level Crossings: Which level crossings are for DFCC only and which for both - DFCC and IR?  | Please refer Annexure-8 PS(Signalling).   |
| 133 | 2 | V(B) | 7 | 47 | 5.9      | How does the interface of the existing IR related level crossing look like?   | Query is not clear.   |
| 134 | 2 | V(B) | 7 | 44 | 5.7.1.2  | Point machine with external clamp lock is required. Will it also be acceptable if customer provides point machine with internal lock?   | Point Machine is to be provided in line with requirement specified in Clause 5.7.1.2 of PS(Signalling). |
| 135 | 2 | V(B) | 7 | 44 | 5.7.1.3  | Details of turnouts to identify suitable type of Point Machine  | Please refer to Clause 8.8 of PS(Signalling).   |
| 136 | 2 | V(B) | 7 | 69 | 10.2.2   | Kindly provide the tentative access date to site/signaling building to start the system work  | Please refer to SN-16 of Table under Clause 8.8 of PS(Signalling) added via Addendum-2.                 |
| 137 | 2 | V(B) | 7 | 71 | 10.3.2.1 | As per the site visit there is not enough space available for the cable laying (suggest an alternative)                                 | Please refer clause 5.6.6 of PS-Signalling.   |
| 138 | 2 | V(B) | 7 | 16 | 3.3.1    | Whether DAC in hot stand by mode means that only the CPU should be in hot stand by mode or the complete set including cards,sensors etc | Please refer to Modified Clauses 3.3.1, 5.2.1.14 & 5.2.3.7.1 of PS(Signalling) in Addendum-2.           |

|     |   |      |   |    |          |  |   |   |
|-----|---|------|---|----|----------|--|---|---|
| 139 | 2 | V(B) | 7 | 35 | 5.5.1.4  |  | Kindly provide the details of SOD for Gantry formation  | Please refer figure 8.3.1-1 of Vol.9 Section V(B), Part 2   |
| 140 | 2 | V(B) | 7 | 49 | 5.11.3.6 |  | VRLA batteries are very difficult to maintain at high temperature. Kindly suggest the alternative and provide the temperature and humidity data for the section | VRLA Batteries as per Clause 5.3.4.6 of PS(Signalling) shall be supplied. Please refer Clause 5.3.5.3 of PS(Signalling) i.e. suitable means to regulate temperature and maintain air circulation to facilitate proper working of VRLA batteries are to be provided. |
| 141 | 2 | V(B) | 7 | 81 | 13.5.2   | Workshop Repair                          | Please confirm whether local repair centre at site is expected? Whether this requirement is for post DLP period also.   | Workshop repair services shall be provided in line with clause 13.5.2. There is no requirement of workshop repair services for Post-DLP.  |
| 142 | 2 | V(B) | 7 | 81 | 13.5.3   | Support and call-out services            | Please confirm whether this requirement is for post DLP period also.  | No.   |
| 143 | 2 | V(B) | 7 | 82 | 13.6     | Spares, Special Tools and Test Equipment | Whether employer wants to buy spares required beyond DLP at time of award of contract or at the end DLP period.   | Please refer to modified Clauses 13.6.2.2 & 13.6.3.4 of PS(Signalling) and modified Clauses 17.1.3.1 & 17.2.6 of PS(Telecommunication) in Addendum-2.   |

|     |   |      |   |    |          |   |  |   |
|-----|---|------|---|----|----------|---|--|---|
| 144 | 2 | V(B) | 7 | 83 | 13.6.2.5 | Contract spares for Employer's operational and maintenance requirement:   | Please confirm that contractor has to establish this system & employer will be liable for renewing the licences, no. of login charges, interfacing with the OEM & all operating charges after the DLP period.  | Yes, the contractor's liability is limited to 'Defect Liability Period'.  |
| 145 | 2 | V(B) | 7 | 16 | 3.3.4    | All Level Crossing gates shall be provided with Electric Lifting Barriers and interlocked. Wherever Level Crossing gate serves both DFCCIL and IR tracks together, the work will be suitably coordinated with IR. | When read in conjunction with ANNEXURE:8 - LIST OF LC GATES, it appears that a no. of LC's are not to be interlocked even after the completion of works. Kindly confirm the signaling arrangement at such LC locations.  | There are some LC Gates, which will cease to exist after Completion of Works, as these are proposed to be replaced by RUB/ROB. However, at all such Non-Interlocked LC Gates, Electric Lifting Barrier will be provided in Phase-I for operation of Gates, covering both IR & DFCC. |
| 146 | 2 | V(B) | 7 | 30 | 5.3.1.5  | Separate UP and DN AT of required capacity shall be provided for each station, level crossing gate, auto signalling installation, telecom installation and any other S&T installation.                            | Kindly clarify on the arrangement and provision of AT at LC gates serving both DFCCIL and IR tracks together.  | Provision of AT at LC Gates is covered in the Scope of Work of this Tender.   |
| 147 | 2 | V(B) | 7 | 54 | 5.14     | UFSBI, SSDAC etc.   | The equipment supplied during Phase-I of the works for absolute block working in the section shall become redundant after introduction of automatic block in Phase-II. Kindly confirm that these equipments shall be absorbed by DFCC after completion of works and not to be returned back to the contractor. | Please refer to New Clause 1.3.15 of PS(Signalling) as included via Addendum-2.   |

|     |   |      |   |    |          |  |   |   |
|-----|---|------|---|----|----------|--|---|---|
| 148 | 2 | V(B) | 8 | 78 | 14.9     | Unless specified otherwise, all equipment to be housed in outdoor environment (open areas, etc) shall be with IP 65 enclosures as a minimum. | The requirement of IP 65 enclosures seems to be on very higher side. Request you to kindly modify the requirement as per Indian railway standard conforming to IP 54. | Provisions of the Bid Document shall prevail.   |
| 149 | 2 | V(B) |   |    |          |  | The material released on commissioning of Ph-1 and Ph-2 will be property of IR or contractors.  | Please refer to New Clause 1.3.15 of PS(Signalling) as included via Addendum-2.   |
| 150 | 2 | V(B) |   |    |          |  | Can we re-use material of Ph-1 for Ph-2, if the design so wants?  | Please refer to New Clause 1.3.15 of PS(Signalling) as included via Addendum-2.   |
| 151 | 2 | V(B) |   |    |          |  | Is there any time limit for Cross approval of equipment by RDSO, after submission of all required documents and info?   | Time will depend on the involvement of the Contractor   |
| 152 | 2 | V(B) | 7 | 50 | 5.11.3.6 |  | What is temperature limits to be regulated for VRLA batteries inside pre-fab structure?   | Temperature Limits shall be as specified in RDSO Spec IRS 93/96 for VRLA Batteries or Manufacturer's Datasheet whichever is more stringent. |
| 153 | 2 | V(B) |   |    |          |  | How many master and slave clocks per location, at how many locations, and of what specs are to be provided  | Specifications are given in Chapter 9 of PS(Telecommunication), and Quantities are given in Annexure-3 of PS(Telecommunication).            |

|     |   |      |   |    |       |  |   |  |
|-----|---|------|---|----|-------|--|---|--|
| 154 | 2 | V(B) | 7 | 50 | 3.3.6 |  | Copy of Gazette notification GSR 705 €, dated 21.9.2011 for modification of semi-auto signal to work in foggy weather   | Copy can be collected from GM/S&T/EC Office.   |
| 155 |   |      |   |    |       |  | Please advise access dates for:<br>1. Track Access<br>2. Power Access<br>3. L.Xings of ECR<br>4. Room Access  | 1. Please refer to Clause 18.2.2(Indicative Interface Matrix with Civil & Track Contractor), Vol.-9 PS(Electrical Works).<br>2. Electrical Power for Signalling & Telecommunication Works has to be provided by System Contractor.<br>3. Please refer to Clause 8.9 of PS(Signalling).<br>4. Please refer to SN-16 of Table under Clause 8.8 of PS(Signalling) added via Addendum No.2.<br>☐ |
| 156 | 2 | V(B) |   |    |       |  | There is a storm water drain between ECR line and DFC line. Is it possible to do any digging between the two lines? If not, please advise how cable shall be laid in this area? | Please read Clause 5.3.3.6 of PS(Telecommunication) in conjunction with Clause 5.3.3.1 of PS(Telecommunication).   |
| 157 |   |      |   |    |       |  | The IR line on the section has got second distant signals. Is DFC line to be provided with Second Distant signals in Phase-1?   | Signalling system shall be designed as per Clause 3.2.1 of PS(Signalling).   |

|     |  |  |  |  |  |  |  |   |
|-----|--|--|--|--|--|--|--|---|
| 158 |  |  |  |  |  |  | Please advise braking distances on the section to be taken as basis of design.   | Braking distance requirement for producing safe design in accordance with PS (Signalling), if at all required may be proposed by the contractor at design stage and will be considered and approved by the Engineer.  |
| 159 |  |  |  |  |  |  | <p>1. Are separate cables to be laid for signaling gears on up and down lines in Auto sections?</p> <p>2. Are separate Apparatus cases/ Location Boxes are to be provided for signaling on up and down lines?</p> <p>3. Can a common power cable be used for up and down signals, or separate power cables need to be laid?</p> <p>4. It is not possible to have line-wise cables in Station sections. Please clarify the issue.</p> | <p>1. Please refer to Clause 5.6.5.8 of PS(Signalling).</p> <p>2. Please refer to New Clause 5.10.8 of PS(Signalling) in Addendum-2.</p> <p>3. Please refer Clause 5.6.5.6 of PS(Signalling).</p> <p>4. Please refer Clause 5.6.5.8 of PS(Signalling).</p> <p><input checked="" type="checkbox"/></p> |
| 160 |  |  |  |  |  |  | When Axle-counters of RDSO specs are used, is it necessary to prove that their Central equipment is Hot Standby?   | Please refer to Modified Clauses 3.3.1, 5.2.1.14 & 5.2.3.7.1 of PS(Signalling) in Addendum No.2.  |
| 161 |  |  |  |  |  |  | Is Dual-Detection to be provided on up and down main lines in station section? If yes, what shall be the means of Track Vacancy Detection in station section, other than MSDAC?  | Please refer to Clause 5.2.1.15 of PS(Signalling).  |
| 162 |  |  |  |  |  |  | Please define Service Affecting Failure.   | Service' pertains to 'Train Services'.  |

|     |   |      |   |   |           |                 |  |  |
|-----|---|------|---|---|-----------|-----------------|--|--|
| 163 |   |      |   |   |           |                 | The section shall be used for Freight Trains. Is CRS sanction going to be taken for opening the section? If yes, who will prepare CRS application, along with its attachments?   | Refer to Clause 4.6(c) of Volume-1 (General Specification).          |
| 164 |   |      |   |   |           |                 | Can we use existing material at LC gates, while modifying the Level Crossing and its circuits to protect DFC line too?   | Please refer to SN-9 of Table in Clause 1.3.4.1 of PS(signalling).   |
| 165 |   |      |   |   |           |                 | FRACAS is neither a standard signaling equipment, nor its specs are given in the Doc. Please furnish detailed specs of FRACAS.   | Please refer to New Clause 3.5.8 of PS(Signalling) in Addendum No.2. |
| 166 | 2 | V(B) | 7 | 5 | 1.3.3 (d) | VHF Comm System | <ol style="list-style-type: none"> <li>1. Please advise the locations between which VHF Comm is to be provided.</li> <li>2. Detailed specs of VHF sets.</li> <li>3. No. of VHS handsets to be provided</li> <li>4. The frequency of operation of VHS Sets</li> <li>5. Agency responsible for taking WPC and SACFA approval for operation of Radio Sys, and the charges.</li> </ol> | Please refer Chapter 10 of PS Telecom and Annexure 6 of PS Telecom.  |
| 167 |   |      |   |   |           |                 | Can we use solar panels as a source of power supply, wherever justified?   | No.  |

|     |   |      |   |    |         |                          |  |   |
|-----|---|------|---|----|---------|--------------------------|--|---|
| 168 |   |      |   |    |         |                          | Type of Telephony, i.e.IP based or SPC based   | Please refer to Chapter 7 & 8 alongwith Annexures 1 & 2 of PS(Telecommunication).   |
| 169 | 2 | V(B) | 7 | 15 | 3.1.1-b | Satisfactory performance | Please define "Satisfactory Performance"   | Self Explanatory  |
| 170 | 2 | V(B) | 7 | 15 | 3.1.1-c | Satisfactory performance | Please define "Proven in Service"  | Self Explanatory  |
| 171 | 2 | V(B) | 7 | 39 | 5.6.5.2 |                          | 1. 20%-Spare Cable conductors are to be kept in each cable or from one location box to another location box at the other end<br>2. Please specify the type of cables in which spare conductors are to be kept, i.e. Signaling Cables, telecom Cables, Power Cables and Optic Fibre Cables. | 1. Please refer 5.6.5 of PS(Signalling).<br>2, Please refer Clause 5.6.5 of PS(Signalling) and Clause 5.3.3.5, 7.6.5 & 8.5.4 of PS(Telecommunication).                        |
| 172 | 2 | V(B) | 7 |    |         |                          | Nominal spacing of Auto Signals is 2-Kms. Please provide minimum and maximum spacing of Auto signals on the section  | Nominal Signal Spacing shall be as per Clause 3.3.5 of PS (Signalling).   |
| 173 | 2 | V(B) | 7 |    |         |                          | As per IR rules, signages and signals for road vehicles are provided by P.Way department. Please confirm that no signage or signals of any type need to be provided by S&T contractor.   | Signage & Signal for Road Users at LC Gate are to provided by Contractor. Please refer Clause 5.16 of Annexures 6 & relevant clauses of Annexure 7 (Rev.1) of PS(Signalling). |



|     |   |      |   |  |  |  |  |   |
|-----|---|------|---|--|--|--|--|---|
| 174 | 2 | V(B) | 7 |  |  |  | <p>Train Actuated Approach Warning System: Please clarify</p> <ol style="list-style-type: none"><li>1. Location of sensor from the LC, the occupation of which by the train shall result into an alarm at the LC, may be advised.</li><li>2. Time bet approach alarm and actual occupation of the LC by the train, and maximum speed of the train may be advised</li></ol> | <p>Please refer to Annexure-7(Rev.1) to PS(Signalling) in Addendum No. 2.</p> |
|-----|---|------|---|--|--|--|--|---|

|     |   |      |   |  |  |  |   |   |
|-----|---|------|---|--|--|--|---|---|
| 175 | 2 | V(B) | 7 |  |  |  | <p>Assumptions:</p> <ol style="list-style-type: none"> <li>1. The power supply at existing ECR LCs can be used by DFC contractor for extending the Interlocking to DFC lines.</li> <li>2. The power supply at LCs of ECR shall be augmented by ECR, if required for extending LC interlocking to DFC lines.</li> <li>3. While extending Interlocking to DFC lines, any work at existing LCs, including supply of material, shall be done by ECR</li> <li>4. Quad cable shall be laid only on the side of EC sockets, and OFC cable on both sides of DFC lines for diversity purpose, if space permits.</li> <li>5. Twenty percent spare cables shall be kept only in Signaling cables, not in Power and Telecom cables.</li> <li>6. During Ph-1, all Power Operated LCs shall be provided with Dead Approach Locked.</li> </ol> | <ol style="list-style-type: none"> <li>1. No.</li> <li>2. No.</li> <li>3. Please refer to Clause 1.3.4.1 of PS(signalling).</li> <li>4. Provision of EC governed by Clause 8.8.1 of PS(Telecommunication). Refer clause 5.3.3.1 of PS(Telecommunication) for route diversity of OFC.</li> <li>5. Refer Clause 5.6.5 of PS(Signalling) and Clause 5.3.3.5, 7.6.5 &amp; 8.5.4 of PS(Telecommunication)..</li> <li>6. Refer to Clause 1.3.4.1 of PS(Signalling).</li> <li>7. Signage &amp; Signal for Road Users at LC Gate are to provided by Contractor. Please refer Clause 5.16 and Annexures 6 &amp; relevant clauses of Annexure 7 (Rev.1) of PS(Signalling).</li> </ol> |
|-----|---|------|---|--|--|--|---|---|



|     |   |      |   |  |         |   |   |  |
|-----|---|------|---|--|---------|---|---|--|
| 183 | 2 | V(B) | 8 |  | 8.8.1   |   | Please clarify is separate cables shall be laid for the two EC sockets on up and down Auto signals.   | Design Proposal of Contractor as per Clause 8.8.1 of PS(Telecommunication) will be approved by Engineer during Design Stage. |
| 184 | 2 | V(B) | 8 |  | 5.3.3.2 | Optical Fibre Cables...shall be terminated in TER at OCC        | The telecom network shall be extended from Sasaram to OCC at MGS on Railtel's telecom system, and do not envisage laying of OFC from Sasaram to MGS under this contract. In the light of this, please clarify the purpose of "Optical Fibre Cables... shall be terminated in TER at OCC". | Please refer to Modified Clause 1.3.3(j) of PS(Signalling) of Bid Document in Addendum-2.                                    |
| 185 | 2 | V(B) | 8 |  | 5.3.3.6 | ...100% route diversity   | During site survey, it was noticed that there was a storm water drain on one side of the DFC line, and no space to lay OFC to give 100% space diversity. Please clarify how 100% space diversity is to be given   | Please read Clause 5.3.3.6 of PS(Telecommunication) in conjunction with Clause 5.3.3.1 of PS(Telecommunication).             |
| 186 | 2 | V(B) | 8 |  | 10.1.2  | 48V DC supply from Batt Charger shall be used for 25W VHF sets. | VHF sets availabel in trade are working on 12V power supply, and specs says to operate them on 48 V supply.   | 48 V DC shall be used as a Power Source. Necessary Working Voltage may be derived from 48 V DC Voltage.                      |
| 187 | 2 | V(B) | 8 |  | 13.2    |   | Shall DFCCIL provide land on rent for setting up temp warehouse/site office?  | Provision of Clause 13.2.1 of PS(Telecommunication) are sufficiently clear.  |

|     |   |      |   |  |         |                             |   |  |
|-----|---|------|---|--|---------|-----------------------------|---|--|
| 188 |   |      |   |  |         |                             | Earthing is used by Electrical and S&T Deptts. Who is going to provide Earthing for Sig & Telecom Systems at OCC, Stations and Auto Locations?  | Provisions of the Bid Document shall prevail.  |
| 189 | 2 | V(B) | 7 |  | 3.5.3   | Failure of Signaling System | Failure of Sig sys on account of Outside Interference, Thefts and Intermittent failures shall be treated as "Failure of Sig sys" for RAMs demo? Pls clarify                             | Please refer to Clause 8.8 of PS(Signalling).  |
| 190 | 2 | V(B) | 7 |  | 5.6.3.1 | Quad Cable                  | Pls advise the Specs for 4-Quad Cables.   | Requirement of Clause 5.6.3.1 shall prevail, which covers Specification of 6 Quad Cable. |
| 191 | 2 | V(B) | 7 |  | 5.6.5.6 | Redundant Power Cables      | Up and down Auto signals shall have separate power supplies. Do we have to provide redundant power cables to up and down power cables mentioned in the preceding sentence? Pls clarify. | Please refer to Clause 5.6.5 of PS(Signalling).  |
| 192 | 2 | V(B) |   |  |         |                             | RDSO has developed VHF set based point-to-point telephones. Can we use them in Signaling system for Phase-1, wherever required.   | Query not clear.   |

|     |   |      |   |    |         |  |   |   |
|-----|---|------|---|----|---------|--|---|---|
| 193 |   |      |   |    |         |  | Who will hire the telecom bandwidth from Railtel for extending Telecom system from Sasaram to OCC at Mughalsarai and pay the rent (for how many days)? Please clarify.  | Please refer to Modified Clause 1.3.3(j) of PS(Signalling) of Bid Document in Addendum-2.   |
| 194 | 2 | V(B) | 8 | 11 | 1.1.1   | This Specification covers the Design, Manufacturing, Delivery, Installation, Testing & Commissioning and Defect Liability Period Support for the Telecommunications System to be supplied under this Contract. | DLP, Warranty & Maintenance Period not specified .  | Please refer to Item "Defect Notification Period" with reference to GC Sub-Clause 1.1.3.7 "Appendix To Tender" of Particular Conditions, Part 3, Section VII. |
| 195 | 2 | V(B) | 8 | 18 | 4.2.1.2 | All active equipment shall have LED indications indicating :   | Is this required on each and every cards of the telephone system as EPABX? Kindly clarify this.   | All the Active <b>Equipment</b> shall have these LED Indications.   |
|     |   |      |   |    |         | (1) normal operating conditions  |   |   |
|     |   |      |   |    |         | (2) normal power supply  |   |   |
|     |   |      |   |    |         | (3) alarm conditions   |   |   |
| 196 | 2 | V(B) | 8 | 18 | 4.3.2   | Unless otherwise specified, all telecommunication equipment shall be designed for operation continuously in temperatures of -5oC to +55oC.   | Can temperature tolerance 0 to 50 deg for telecom eqpt is acceptable, as telecom eqpt for range -5 to +55 deg are generally not available, and hence not used even in Railtel , For Telephony Equipments As per Indian Telecom Standard these items remain in room and temprature should be 0-40 C. | Provisions of the Bid Document shall prevail.   |

|     |   |      |   |    |         |  |   |   |
|-----|---|------|---|----|---------|--|---|---|
| 197 | 2 | V(B) | 8 | 20 | 5.3.3.2 | Optical fibre cables of the first network shall be terminated in ODFs in TERs at OCC, New Durgauti, New Kudra, New Karwandiya, Sasaram(DFCC Hut) and any other locations if required.  | Please clarify the connectivity of OFC at OCC. The phrase "Termination of OFC in TER at OCC.." is creating the confusion that we need to lay OFC from Sarasarm to OCC at Mughalsarai. Please clarify. | Please refer to Modified Clause 1.3.3(j) of PS(Signalling) of Bid Document in Addendum No.2.  |
| 198 | 2 | V(B) | 8 | 20 | 5.3.4.1 | 5.3.4.1 The SDH nodes shall consist of STM Multiplexers with Optical Line Terminals connected to Optical Fibre Cable backbone network to form the SDH Network of the OFC System. The SDH Network shall provide dual and self-healing protected transmission paths. | Please clarify and elaborate dual & self-healing protected transmission paths.  | Self-Healing Mechanism is Traffic Protection Mechanism, which detects failure of Normal Path and re-route the traffic to Reserved Path. Please also refer to Clause 5.3.7 of PS(Telecommunication). |

|     |   |      |   |    |         |   |  |  |
|-----|---|------|---|----|---------|---|--|--|
| 199 | 2 | V(B) | 8 | 21 | 5.3.4.4 | <p>SDH Equipments shall be equipped with Ethernet over SDH(EoS) as per ITU-T Rec. G.7041 at 10/100 BaseT. This Ethernet over SDH(EoS) shall facilitate delivery of Ethernet Private Line (EPL) Services, Ethernet Virtual Private Line (EVPL) Services and Ethernet Local Area Network (E-LAN) Services. The EoS shall support Layer-2 encapsulation and forwarding through Multiprotocol Label Switching (MPLS) using Ethernet Pseudo Wire (PWE3).</p> <p>In order to realize the above mentioned services, there shall be in-built Layer-2 Bridging &amp; Aggregation functionality as per IEEE 802.1d. There shall be support for VLAN Stacking (Q-in-Q) as per IEEE 802.1ad on all ports. The equipment shall support Ethernet Link OAM in accordance with IEEE 802.3ah. The equipment shall also support Link Aggregation &amp; Protection on service and trunk ports as per IEEE 802.3ad.</p> | <p>Is it possible to delete the requirement for Multiprotocol Label Switching (MPLS) using Ethernet Pseudo Wire (PWE3) ?</p> | <p>Provisions of the Bid Document shall prevail.</p> |
|-----|---|------|---|----|---------|---|--|--|



|     |   |      |   |    |           |  |  |   |
|-----|---|------|---|----|-----------|--|--|---|
| 200 | 2 | V(B) | 8 | 21 | 5.3.4.5   | Control/Processor Card, Switch/Matrix Unit & Power Supply Modules of SDH Equipments shall be provided with 1+1 Protection  | Is controller card protection necessary. However failure of a single controller card will not lead to traffic down only manageability will be affected | Please refer to Addendum No.2 for modified Clause 5.3.4.5 of PS(Telecommunication).   |
| 201 | 2 | V(B) | 8 | 27 | 5.5.1.1   | The Contractor shall submit the following information to the Engineer for review: (13) self-healing mechanism, normal traffic flow diagrams, protected traffic flow details for various single and multiple cable(s) and/or node(s) failures; and  | Please clarify Self healing mechanism  | Self-Healing Mechanism is Traffic Protection Mechanism, which detects failure of Normal Path and re-route the traffic to Reserved Path. Please also refer to Clause 5.3.7 of PS(Telecommunication). |
| 202 | 2 | V(B) | 8 | 30 | 5.5.3.3.6 | Flexible Access Multiplex Equipment shall support Omnibus Operation of Voice in digital format and Data Channels.  | Can Conference Card be provided instead of Omnibus Operation to achieve the same end result.   | Provisions of the Bid Document shall prevail. Design Proposal of Contractor will be approved by Engineer during Design Stage.   |
| 203 | 2 | V(B) | 8 | 30 | 5.5.3.4.7 | The Flexible Access Multiplex Equipment shall also support/provide data interfaces, including but not be limited to the following, subject to the Approval of Engineer:<br>(6) ISDN Basic Rate Interface with 2B+D channels as defined in ITU-T Rec. I.430;<br>(7) Primary Rate Interface complying with ITU-T Rec. I.431 interface at 2.048 Mbps (30B+D); and | Are these features mandatory as these functionalities are available in EPABX too?  | Provisions of the Bid Document shall prevail.   |

|     |   |      |   |    |       |   |  |   |
|-----|---|------|---|----|-------|---|--|---|
| 204 | 2 | V(B) | 8 | 36 | 7.3.1 | A highly reliable Main and Satellite EPABX Switch based Telephone System shall be installed and commissioned to provide communications to digital and analogue telephone sets throughout the project. The Contractor shall discuss with the Engineer to agree on the exact location of each type of telephone sets. The EPABX Network shall provide feature transparency across all the EPABX switches throughout EDFC. | what is the Qty of each type of Phone Analog/Digital.?   | Please refer to Modified Clause 7.3.12 of PS(Telecommunication) in Addendum No. 2) and Annexure-1 of PS(Telecommunication). |
| 205 | 2 | V(B) | 8 |    | 7.3.2 | Satellite EPABX Switches shall be provided at the Stations(New Durgauti, New Kudra, Sasaram[DFCC Hut] and New Karwandiya). Main EPABX Switch shall be provided at either OCC or any of the location as decided by Engineer. The telephones at other locations shall be connected to the nearest EPABX Switch via the OFC System.  | Different EPABXs shall connect through E1. Please confirm.   | Please refer to Clause 7.3.3 of PS(Telecommunication).  |
| 206 | 2 | V(B) | 8 |    | 7.3.5 | A centralized digital Voice Recording System (VRS) shall be provided at the designated place to record all telephone conversations of all controllers in OCC, Stations and Sasaram(IR).   | Is the call to be record only on direct line console? Pls list the lines, the conversation of which shall be recorded. | Please refer to Clause 7.5.4.1 and 8.2.4 of PS(Telecommunication).  |

|     |   |      |   |  |             |  |  |  |
|-----|---|------|---|--|-------------|--|--|--|
| 207 | 2 | V(B) | 8 |  | 7.3.7       | A Network Management System with a workstation, system database, logging printers and mass storage devices shall be provided at the designated place as decided by Engineer. | PC and Printers are in High Availability/Redundancy required ?   | Please refer to Clause 7.4.3.3 for Availability of Telephone Network Management System.                        |
| 208 | 2 | V(B) | 8 |  | 7.3.8       | (6) Call Party Name Display;   | Is all analog phone will have clip & name display also   | For features of Analog Telephone Set, please refer to Clause 7.5.2.5(1) of PS(Telecommunication).              |
| 209 | 2 | V(B) | 8 |  | 7.3.12      | Wired Ports  | is license free slot & cable system?   | Query not clear.   |
|     |   |      |   |  |             | Ports for CO lines   | is this required in all systems, i.e. in Satellite EPABXs too?   | Yes. Provisions of Bid Document shall prevail.   |
|     |   |      |   |  |             | Ports for DID lines  | type of interface for DID ports is Analog/PRI?   | Please refer to modified Clause 7.3.12 of PS(Telecommunication) in Addendu No.-2.                              |
| 210 | 2 | V(B) | 8 |  | 7.5.2.2 (2) | shall connect long distance subscriber lines with loop resistance upto 2400 Ohms and minimum leakage of 15 K ohms; and   | In today technology scenario there is no long distance card having 2400 ohm. Request you to make amend mend with 1200ohm, which can go upto 10km on 0.6mm cable. | Please refer to modified Clause 7.5.2.2(2) of PS(Telecommunication) in Addendum No.2.                          |
| 211 | 2 | V(B) | 8 |  | 7.5.2.3     | The digital extension line equipment shall be capable of data transmission simultaneously with speech (ISDN working).  | Shall the EPABX be equipped for this, or the EPABX should support the functionality with additional hardware?  | Digital Extension Lines shall be considered capable only if they are equipped with required Hardware/Software. |
| 212 | 2 | V(B) | 8 |  | 7.5.2.5     | 1.) Analogue telephone sets with<br>(a) DTMF keypad;   | Are analog telephones to have integrated Clip and Display?   | Provisions of the Bid Document shall prevail.  |

|     |   |      |   |  |   |   |   |
|-----|---|------|---|--|---|---|---|
|     |   |      |   |  | (b) 4 feature keys, last number redial key, hook flash, mute and hold;  |   |   |
|     |   |      |   |  | (c) lamp for message waiting;   |   |   |
|     |   |      |   |  | (d) power supplied by the EPABX System;   |   |   |
| 213 | 2 | V(B) | 8 |  | 7.5.3.1 The VMS shall enable internal and external telephone users to access specific mailboxes using the following peripherals:  | Is the voice mail can be quoted distributed as well as a indian make, not necessary as OEM make.? | Query not clear.                              |
|     |   |      |   |  | (1) analogue telephones using DTMF;   |   |   |
|     |   |      |   |  | (2) digital telephones;   |   |   |
|     |   |      |   |  | (3) CO outgoing trunks and DID trunks; and  |   |   |
|     |   |      |   |  | (4) digital trunk;  |   |   |
| 214 | 2 | V(B) | 8 |  | 7.5.5.1 The Telephone Network Management System shall provide control, supervision and maintenance functions for the entire Telephone System. The following management and administrative functions shall be provided through the use of the centralized maintenance console: | Plz include Network Topolozy view of the telephone system.  | Provisions of the Bid Document shall prevail. |

|     |   |      |   |  |       |  |   |   |
|-----|---|------|---|--|-------|--|---|---|
| 215 | 2 | V(B) | 8 |  | 7.8.1 | The Telephone System shall be expandable to include additional EPABX switches into the EPABX Switch Network without affecting the performance and the operation of the Telephone System. The Telephone Network Management System shall be expandable to control and monitor the additional EPABX switches required for expansion of the network. | Please provide more Clarity on Telephone Network Management System. | Provisions of the Bid Document are sufficiently clear.                        |
| 216 | 2 | V(B) | 8 |  | 8.1.1 | (7) between adjacent Station Control Rooms for stations(New Durgauti, New Kudra, Sasaram (IR), New Karwandiya and two other Class C Stations);   | Please provide more Clarity.  | Provisions of the Bid Document are sufficiently clear.                        |
|     |   |      |   |  |       | (8) between Station of DFCC(New Durgauti, New Kudra, New Karwandiya and two other Class C Stations) and Interfacing Station Master Room of Indian Railway;   | Please provide more Clarity.  | Provisions of the Bid Document are sufficiently clear.                        |
|     |   |      |   |  |       | (9) between OCC/EDFC and IR Sectional Control Centres and Interfacing Station along the route as decided by the Engineer;  | Please provide more Clarity.  | Provisions of Bid Document are sufficiently clear.                            |
| 217 | 2 | V(B) | 8 |  | 8.2.2 | Direct Line Telephones   | Please provide more Clarity.  | Please refer to Clause 8.2.2.1 and 8.2.2.2 of PS(Telecommunication).          |
| 218 | 2 | V(B) | 8 |  | 8.2.3 | Direct Line Telephone at Home Signal of Stations.  | Please provide more Clarity.  | Please refer to Clause 8.2.3.1, 8.2.3.2 and 8.2.3.3 of PS(Telecommunication). |

|     |   |      |   |  |            |   |  |   |
|-----|---|------|---|--|------------|---|--|---|
| 219 | 2 | V(B) | 8 |  | 8.2.3.1    | Direct Line Telephone shall be provided at the Home Signal of Stations. Through this Direct Line Telephone, Train driver shall be able to contact Station Controller.   | Please provide more Clarity. Can a point-to-point communication system or Talk-back be accepted vice DLT at HS Post? From DLT, driver or anybody else may dial any other subscriber, which is not desirable. | Direct Line Telephones are to be provided at Home Signal of Stations. Provisions of Bid Document shall prevail.               |
| 220 | 2 | V(B) | 8 |  | 8.2.3.2    | Each Direct Line Telephone shall be self-contained unit consisting of metal box containing a heavy duty telephone hand set and cord and calling facility. The unit will be adaptable to signal Post Mounting. This Telephone Metal Box shall have suitable Lock & Key arrangement with uniform key for entire EDFC. | Please provide more Clarity.   | Provisions of the Bid Document are sufficiently clear.  |
| 221 | 2 | V(B) | 8 |  | 8.4.1      | Direct Line Communication System shall be logically independent of the EPABX System.  | It means DLT & EPABX will be in one system?  | Provisions of the Bid Document shall prevail. Design Proposal of Contractor will be approved by Engineer during Design Stage. |
| 222 |   |      |   |  | ANEXUR E-1 | Nearby Class C Station-<br>Nearby IR Stations   | How can be extend these locations? No Digital phone quantity mentioned.  | Please refer to Clause 5.5.3.4.3 of PS(Telecommunication).<br>Please refer to Clause 5.5.3.4.3 of PS(Telecommunication).      |
| 223 |   |      |   |  | ANEXUR E-2 | Each Class B Station of DFCC<br>New Karwandiya, New Kudra, and New Durgauti<br>Direct Line Console (30 LINES)- 3<br>Each Class c Station of DFCC<br>New Muthani New Kumhau  | Is this one at each location?<br>From which station site, it shall work? Also these DLC can be on  | Yes, One at each location.<br>Provisions of Bid Document shall prevail. Design Proposal of                                    |

|     |   |      |   |  |                                   |   |  |   |
|-----|---|------|---|--|-----------------------------------|---|--|---|
|     |   |      |   |  | Direct Line Console (30 LINES) -2 | VOIP only to full fill the centralized voice recording as well to distribute anywehre in the network, kindly confirm.   | Contractor will be approved by Engineer during Design Stage.   |   |
| 224 | 2 | V(B) | 8 |  | 6.2                               | Scope of Supply for Data Networking System  | Plz give details of items  | Query not specific. Provisions of Bid Document shall prevail. Design Proposal of Contractor will be approved by Engineer during Design Stage. |
| 225 | 2 | V(B) | 8 |  | 6.3.3                             | Ethernet Services such as Ethernet Private Line (EPL) Services, Ethernet Virtual Private Line (EVPL) Services, Ethernet Local Area Network (E-LAN) Services, Layer2 Protocol Tunnelling (L2PT), Virtual Private Wire Service(VPWS) & Ethernet over MPLS (EoMPLS) shall be available on WAN. Ethernet Services such as EPL, EVPL & E-LAN shall be extended to Class C Stations, Durgauti(IR), Auto Section Location, LC Gates, TSS, SP & SSP using EoS(Ethernet over SDH) of OFC System for meeting the requirements of other Systems within this Contract and outside this Contract as decided by Engineer. | Is MPLS Support is must ? or this solution can be provided by direct L3 mesh connectivity with seamless latency. | Provisions of the Bid Document shall prevail.   |

|     |   |      |   |  |         |   |  |   |
|-----|---|------|---|--|---------|---|--|---|
| 226 |   |      |   |  | 6.3.4   | Layer-3 Services such as IPv4 Routing[Border Gateway Protocol(BGP), Intermediate System-to-Intermediate System(IS-IS) Open Shortest Path First(OPSF), Hot Standby Router Protocol(HSRP), Virtual Router Redundancy Protocol(VRRP)], IPv6 Routing, Multi Protocol Label Switching[Label Distribution Protocol (LDP), Targeted LDP(T-LDP), Primary & Secondary Label Switched Paths, MPLS L3 VPN, Resource Reservation Protocol(RSVP), MPLS Traffic Engineering(including TE-FRR), Routed Pseudowire], IP-VPN(RFC 2547) and Integrated Routing & Bridging shall be available on the WAN. These services shall be implemented to cater for the communication requirements of various systems under this Contract as well as outside this Contract. | HSRP is CISCO Proprietary, is VRRP ok? IP-VPN, MPLS L3 VPN is required in within Intranet? | Please refer to modified Clause 6.3.4 of PS(Telecommunication) in Addendum No.2.  |
| 227 | 2 | V(B) | 8 |  | 6.4.1.2 | Fault tolerant design with protections against failure shall be provided in order to achieve the system availability.   | Is Switch Redundancy is required for HA at all Stations?                                   | Provisions of the Bid Document shall prevail. Design Proposal of Contractor will be approved by Engineer during Design Stage. |
| 228 | 2 | V(B) | 8 |  | 6.4.4   | Maintainability Requirements  | Pl explain?  | Query not clear.  |
| 229 | 2 | V(B) | 8 |  | 6.4.4.2 | The service life of the Data Networking System (equipment) shall not be less than 15 years.   |  | No Query.   |



|     |   |      |              |  |          |  |   |  |
|-----|---|------|--------------|--|----------|--|---|--|
| 230 | 2 | V(B) | 8            |  | 6.5.1.10 | Switches shall support Online Software Reconfiguration to implement changes without rebooting. The OS for the switches must be modular. A certificate to this effect shall be provided by the OEM of the switch. | Configuration only or Software Upgrade also?  | Provisions of the Bid Document shall prevail.  |
| 231 | 2 | V(B) | 8            |  | 6.5.6    | The WAN shall provide sufficient bandwidth to cater for the communication requirements of various systems under this Contract as well as outside this Contract   | Please specify "outside this Contract "   | "Outside this Contract" means System to be provided by other Contractor for the operation of Section New Karwandiya-Durgauti.  |
| 232 |   |      |              |  | 10       | VHF Communication  | Needs to specify VHF Communication. Is it required only for Stations or for Train also.   | Provisions of the Bid Document are sufficiently clear.   |
| 233 |   |      |              |  | 15.3.7   | FAT for equipment supplied as per RDSO Specification and from RDSO approved sources shall be carried out by RDSO.  | Please specify the exact specifications required for equipments RDSO or TEC ?   | Requirement of RDSO Specification are mentioned in relevenat Clauses of PS(Telecommunication).   |
| 234 |   |      | PS Sig Vol-8 |  | 5.3.3.3  |  | If the distanace between two LCs is less than a train length, the two adjacent LCs will be controlled by one CBI. Under such circumstances, it is necessary to provide Telecom eqpt of Second Teleocm Network at such LC Gate | Locations of Telecom Equipment of Second Network can be clubbed based upon Design of other Systems under this Contract, However it shall meet the overall Telecommunication Requirement stipulated in Bid Document. Design proposed by Contractor shall be approved by Enginner at Design Stage. |

|     |   |   |                 |            |   |   |  |  |
|-----|---|---|-----------------|------------|---|---|--|--|
| 235 |   |   | PS Sig<br>Vol-8 |            |   |   | It is mentioned in the RFP doc that all work at Sasaram, except Block Working with adjoining with DFCCIL stations, shall be done by IR. Please clarify whether LC 42/3T at Km 571/25-27 shall be interlocked by IR, and its Gate signals and Gate Distant signals shall be also be provided by IR. | Signalling Works for LC 42/3T at Sasaram Station shall be done by IR. Please refer to Amendment to Annexures-6 & 8 as included in Addendum No.2. |
| 236 | 5 | - | -               | 27 &<br>50 | - | - | In case of the item of work of Management Plans (D1.1 to D1.3 & E1.1 to E1.3) kindly split the sub cost centers between Phase 1 Works & complete Works as it has been done for the rest of the items of work (Preliminary Design Documents, Definite Design Documents, etc.).                      | Provisions of Bid Document shall prevail.  |
| 237 | 5 | - | -               | 28 &<br>51 | - | - | We request you to kindly delete this item of work as all the pertinent design activities are completely being covered under the preceding sub cost centers and this obviates the need of this sub cost center which has been apportioned 5% of the overall Cost Center value. ☐                    | Provisions of Bid Document shall prevail.  |

|     |   |   |   |   |   |   |   |   |
|-----|---|---|---|---|---|---|---|---|
| 238 | 5 | - | - | 29,<br>33 &<br>35   | - | - | In case of the item of work of Delivery of Material of complete works (D2.8, D4.8 & D5.8) & Installation of complete works (D2.11, D4.11 & D5.11) kindly split the sub cost centers between Indoor Works & Outdoor Works as it has been done for the rest of the items of work. | Provisions of Bid Document shall prevail.     |
| 239 | 5 | - | - | 29,<br>32,<br>33,<br>35,<br>38,<br>40,<br>42 &<br>43        | - | - | We request you to kindly delete this item of work as all the Signaling Works are completely being covered under the preceding sub cost centers and this obviates the need of this item of work which has been apportioned 5% of the overall Cost Center value. ☒                | Provisions of the Bid Document shall prevail. |
| 240 | 5 | - | - | 53,<br>54,<br>57,<br>59,<br>60,<br>63,<br>64,<br>67 &<br>68 | - | - | We request you to kindly delete this item of work as all the Telecommunication Works are completely being covered under the preceding sub cost centers and this obviates the need of this item of work which has been apportioned 5% of the overall Cost Center value. ☒        | Provisions of the Bid Document shall prevail. |



|     |  |  |  |  |  |  |   |  |
|-----|--|--|--|--|--|--|---|--|
| 244 |  |  |  |  |  |  | <p>As you have asked the rate in lump sum, in that respect as per schedule described the work will be executed Electronic Interlocking with Automatic Signalling.</p> <p>a) If any additional requirement will be convey by Railway/DFC at the time of execution due to which the material and execution cost is effected. How it will be paid, kindly convey.</p> <p>b) The payment structure mentioned in tender % wise, it is also effect and how it will be solved.</p> | <p>The additional work will be determined and paid in accordance with relevant Clauses of GCC and PCC, which are amply clear on the issue. ☐</p> |
| 245 |  |  |  |  |  |  | <p>The practice of supply and execution of work is changing from Railway to Railway which effect on cost of material land execution. Kindly convey the exact practice required.</p>   | <p>Query not specific. The supply and execution to be made in accordance with Provisions of Bid Document.</p>                                    |

|     |   |      |   |    |          |  |  |   |
|-----|---|------|---|----|----------|--|--|---|
| 246 | 2 | V(B) | 7 |    |          |  | Annexure mentioned in Clause 15 of PS at page No.92 of Part-2 Section-V(B) Vol.7 of the Document is not available/attached. Thus Gate working in Automatic territory, all gates to be interlocked but the same gate may be available in existing Absolute Block territory with IR, whether these Gates to be included in the scope of this tender. | Annexures are part of Bid Document and are also available on the website.                     |
| 247 |   |      |   |    |          |  | Distance between Karwandia(Existing station) & proposed New Karwandia station is not mentioned.  | Please refer to Part-4 "Reference Drawings" attached with the Bid Document.                   |
| 248 |   |      |   |    |          |  | Further the following distances are required:  | Please refer to Part-4 "Reference Drawings" attached with the Bid Document.                   |
| 249 | 2 | V(B) | 7 | 24 | 5.2.1.14 |  | Pl.refer Sr.no.8, what does it actually mean as "Station shall be provided with DAC in hot standby configuration".   | Please refer to Modified Clauses 3.3.1, 5.2.1.14 & 5.2.3.7.1 of PS(Signalling) in Addendum-2. |
| 250 | 2 | V(B) | 7 |    |          |  | DFCC proposing VRLA batteries for S&T Works (at Page no.322 of Part-2 Section-V(B) Vol.7. Generally Low Maintenance Cells are used, kindly confirm.  | Provisions of the Bid Document shall prevail.   |

|     |   |      |   |    |                     |  |   |  |
|-----|---|------|---|----|---------------------|--|---|--|
| 251 |   |      |   |    |                     |  | What are the approximate number of routes for the proposed DFCC stations? Are there any tender drawings/SIP.  | Refer to attached 'Yard Plans' in Part-4 "Reference Documents".                              |
| 252 | 2 | V(B) | 7 | 32 | 5.3.5.3             |  | Whether air conditioning is required for all prefabricated structure & buildings.   | Please refer to Clause 5.11.3.6 of PS(Signalling) and Clause 4.3.3 of PS(Telecommunication). |
| 253 | 5 |      |   |    | Price Schedule , C2 |  | The mentioned price schedule for overhead electrical works should be 100%. The sum of the listed percentages is 94% only. Please provide corrected list.  | Please refer Addendum No.2   |
| 254 | 3 | VII  |   | 13 |                     |  | Under 3, is time for completion mentioned with 810 days. In Part 3 Section VIII page 35 chapter 4.1 is time for completion mentioned with 540 days. Please clarify which amount of days is correct. | Please refer Addendum No.2   |