

**DETAILED CORRIGENDUM-1****Bid Notice No. IFB No. HQ/EN/EC/NKWD-NGAQ/D & B-1****Dated 05.06.2008.**

Decisions taken by DFCC on various issues raised during the Pre Bid Meeting held on 25.06.2008 in connection with Bid Notice No. IFB No. HQ/EN/EC/NKWD-NGAQ/D & B-1 dated 05.06.2008. Due to these decisions, following paras of the bid document have been amended / added and may be read as under.

While amending the clauses minor changes have also been made in the top width of bank and cutting and vertical MMD as per latest guide lines.

<b>VOLUME I</b>		
<b>Project Information &amp; Scope of Work in Brief</b>		
<b>Clause- 2</b>	Bank width for double line : 14.50 m (Amended)	
	Cutting width for double line : 19.9 m (Amended)	
	Vertical MMD : 5.1 m (Amended) While preparing GADs for ROBs, FOBs the above amended MMD shall be taken into consideration.	
<b>The changes made are as under</b>	<b>Invitation for Bids</b>	
	<b>Key Details</b>	
	<b>Completion Period</b>	36 Months
	<b>Date &amp; Time of submission of Tender</b>	From 06.08.2008 to 11.08.2008 (between 10.00 Hrs to 17.00 Hrs) and upto 15.00 Hrs on 12.08.2008
	<b>Date &amp; Time of opening of Tender</b>	15.30 Hrs on 12.08.2008
	<b>2.0 Eligible Bidders</b>	
	DFCC has invited bid stipulating that it is for 'national competitive bidding'. By this the Corporation intends and means that –	
	(i) All bidders shall have a proper authority under Indian laws to do and carry out business in India; And	
	(ii) All payments under the contract shall be made in india in Indian Rupees; And,	
	(iii) All disputes shall be processed and resolved as per relevant Indian laws and shall be subject only to the jurisdiction of Indian courts.	

<p>(iv) Any foreign entity that is authorized to do business in India can participate in the bid either on its own or as a member (including the status of a lead member) of a joint venture.</p> <p><b>3.0 Eligibility Criteria</b></p> <p><b>3.1 Technical Criteria</b></p> <p><b>3.1.1 Experience of similar work</b></p> <p><b>Experience of Similar work*</b></p> <p><b>a)</b> The bidder should have satisfactorily completed <b>Three (3)</b> works of similar nature, <b>each costing not less than Rs. 228 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>b)</b> The bidder should have satisfactorily completed <b>Two (2)</b> works of similar nature, <b>each costing not less than Rs. 285 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>c)</b> <b>Satisfactorily</b> completed <b>one (1)</b> work of similar nature, <b>costing not less than Rs. 455 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>d)</b> <b>Satisfactorily</b> completed at least <b>80 %</b> of one single ongoing work of similar nature <b>costing not less than 600 Crores</b> during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p><b>*Similar nature of works is defined as any work of Highways, Expressways, Tunnels, Dam projects, Airports, Sea Ports, Railways (New Line / Doubling / Gauge Conversion and Bridge Works.)</b></p> <p><b>Note: To work out a present day cost of the works completed, 5% inflation for Indian Rupees every year and 2% of foreign currency every year shall be taken. The Updation shall be done only upto 31.03.2008</b></p>
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	<p><b>4. Financial Criteria</b></p> <p>4.1 Contractual payment received by the bidder from infrastructure* works completed or in progress, of <b>not less than Rs. 1200 crores</b>, during last five financial years i.e. 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid</p> <p>*Works contract of <b>Highways, Expressways, Tunnels, Dam projects, Airports, Sea Ports, Railways (New Line / Doubling / Gauge Conversion and Bridge Works.)</b> and works of similar types involving large scale civil works, shall be deemed to be infrastructure works.</p> <p><b>4.2 Net worth</b></p> <p>4.2.1 The bidder shall have a minimum average net worth of Rs.90 Cr. over last three financial year i.e. 2005 -06, 2006-07, 2007-08.</p> <p><b>5. Joint Ventures</b></p> <p><b>5.1</b> In case the bidder is JV, the combined technical criteria and financial criteria of the Members of the JV should satisfy the eligibility criteria as detailed in <b>para 3.1, 4.1 and 4.2.1 above.</b></p> <p><b>5.1.1</b> The constituents technical experience shall be taken from the certificates submitted either as individual or partners of JV in proportion of their share in that JV.</p> <p><b>5.2</b> In case the bidder is JV then the combined financial criteria shall be assessed by totaling individual share of constituents in proportion of their share in the proposed JV.</p> <p><b>5.2.1</b> The constituents financial experience shall be taken from the annual financial statement of the bidder that he will submit along with the bid. If these financial statements do not separately show the amount of contractual payments received from infrastructural works, this amount with contract wise details shall be submitted by the bidder duly certified by their Auditors.</p> <p><b>6. Evaluation parameters</b></p> <p><b>6.1</b> Financial Bids of only those bidders shall be opened who qualify the above criteria.</p>
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<b>Section 1 Instructions to Bidders</b>	
<b>Clause 1.5</b>	Period of completion : 36 Months
<b>Clause 3.1 (first para should be replaced and read as)</b>	A Bidder may be a natural person, private entity including any foreign entity i.e. authorized to do business in India, public sector corporate, or any combination of them with a formal intent to enter into an agreement or under an existing agreement in the form of a Joint Venture (JV). The word JV / consortium appearing anywhere in the bid document shall be read as Joint Venture (JV) only. No consortium is permitted in the instant bid.
<b>Clause 3.1 b Para (i) (should be replaced and read as)</b>	The JV shall not have more than three (03) partners and the share of any one of the partner should not be less than 25%.
<b>Additional Clause 3.1 c</b>	DFCC has invited the bid stipulating that it is for 'National Competitive Bidding.' By this the Corporation intends and means that-  (i) All bidders shall have a proper authority under Indian laws to do and carry out business in India; and  (ii) All payments under the contract shall be made in India in Indian Rupees; and,  (iii) All disputes shall be processed and resolved as per relevant Indian laws and shall be subject only to the jurisdiction of Indian courts.  (iv) Any foreign entity that is authorized to do business in India can participate in the bid either on its own or as a member (including the status of a lead member) of a joint venture.
<b>Section 2 Bid Data Sheet</b>	
<b>ITB 19.1 (content of para 19.1 Bid data sheet shall be read as)</b>	Bid will be submitted in DFCCIL's office, New Delhi from <b>10.00 Hrs to 17.00 Hrs</b> on all working days from <b>06.08.2008 to 11.08.2008</b> and upto <b>15.00 Hrs of 12.08.2008</b> at the address given below:-  <b>General Manager, Engineering –III, Dedicated Freight Corridor Corporation of India Ltd., C/o IRCON Office, 6<sup>th</sup> Floor, Palika Bhawan, Sector – XIII, R.K. Puram, New Delhi- 110066..</b>
<b>ITB 21.1 (content of para 19.1 Bid data sheet shall be read as)</b>	Bid shall be opened at DFCCIL's office, New Delhi at <b>15.30 Hrs on 12.08.2008</b> at the address mentioned above.

<b>Section 3 Evaluation &amp; Qualification Criteria</b>	
<b>Clause 1</b>	<b>Technical Criteria</b>
<b>Clause 1.1 (replace existing content of Clause 1.1 with the following)</b>	<p><b>Experience of Similar work*</b></p> <p><b>a)</b> The bidder should have satisfactorily completed <b>Three (3)</b> works of similar nature, <b>each costing not less than Rs. 228 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>b)</b> The bidder should have satisfactorily completed <b>Two (2)</b> works of similar nature, <b>each costing not less than Rs. 285 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>c)</b> <b>Satisfactorily</b> completed <b>one (1)</b> work of similar nature, <b>costing not less than Rs. 455 Crores</b>, during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p style="text-align: center;">OR</p> <p><b>d)</b> <b>Satisfactorily</b> completed at least <b>80 %</b> of one single ongoing work of similar nature <b>costing not less than 600 Crores</b> during the last 5 years <b>i.e.</b> 2003-04, 2004-05, 2005 -06, 2006-07, 2007-08 and upto the date of opening of Bid.</p> <p><b>*Similar nature of work is defined as any work of Highways, Expressways, Tunnels, Dam Projects, Airports, Sea Ports, Railways (New Line / Doubling / Gauge Conversion and Bridge Works).</b></p> <p><b>Note: To work out a present day cost of the works completed, 5% inflation for Indian Rupees every year and 2% of foreign currency every year shall be taken. The Updation shall be done only upto 31.03.2008.</b></p>
<b>Clause 2.1 (second para of Clause 2.1 should be replace and read as)</b>	<b>Works Contract of Highways, Expressways, Tunnels, Dam Projects, Airports, Sea Ports, Railways (New Line / Doubling / Gauge Conversion and Bridge Works) and works of similar types involving large scale civil works, shall be deemed to be infrastructure works.</b>

<b>Clause 3.1 (should be replaced and read as)</b>	<b>JV</b> (i) In case the bidder is JV, the combined technical criteria and financial criteria of the Members of the JV should satisfy the eligibility criteria as detailed in <b>para 1.1 (amended), 2.1 and 2.2.1 (as given in bid document)</b> .
<b>Additional Clause 3.1.1</b>	The constituents technical experience shall be taken from the certificates submitted either as individual or partners of JV in proportion of their share in that JV.
<b>Clause 3.2 (should be replaced and read as)</b>	In case the bidder is JV then the combined financial criteria shall be assessed by totaling individual share of constituents in proportion of their share in the proposed JV.
<b>Clause 3.2.1 (should be replaced and read as)</b>	The constituents financial experience shall be taken from the annual financial statement of the bidder that he will submit along with the bid. If these financial statements do not separately show the amount of contractual payments received from infrastructural works, this amount with contract wise details shall be submitted by the bidder duly certified by their Auditors.
<b>Section -5 Employer's Requirement</b>	
<b>Functional</b>	
<b>Add Note after Clause 2 (c)</b>	On Detour section contractor has to do detailed hydrological calculations to confirm adequacy of indicative spans given for minor and major bridges and suggest changes if required on technical grounds in respect of <ul style="list-style-type: none"> <li>• Change in size and nos. of spans</li> <li>• Need of additional bridges specifying spans</li> <li>• Deletion if, the indicative bridges are not needed</li> </ul> Suggested changes if accepted by DFCC shall be considered <b>as change in employers requirements</b> and the payment for the same shall be done in terms of Clause 4 of preamble of Volume 2 of bid document.
<b>Clause 2 (h) (should be replaced and read as)</b>	Wherever DFC alignment is passing in parallel section adjacent to existing railway level crossing gates (33 Nos.), the contractor shall undertake suitable modification in approach road <b>as per Indian Railway P.Way Manual Provision</b> and for reconstructing /relocating various provisions of level crossing gates for safe and smooth passing of existing rail and road traffic during the time of construction of DFC. He shall also provide the same after construction, considering the need for level crossing on DFC track.

	Wherever, gate lodges (List enclosed at Appendix - II) are coming on the DFC alignment, the Contractor is required to construct these gate lodges on the new location approved by the railway/Engineer. Approximate area of each gate lodge has given in Appendix-II.
<b>Clause 2 (k) (should be replaced and read as)</b>	The contractor is required to remove all trees coming on alignment & those on DFCC land as directed by the Engineer. DFCC will obtain approval from concerned authorities and Contractor shall assist in getting the approval for the same. After cutting, the trees shall become contractor's property and hence due consideration be given for this by the bidder while quoting lump sum cost. List of trees required to be cut along with a change and other details are enclosing in Appendix 2 of the Employers Requirement.
<b>Clause 2 (O- vi) (should be replaced and read as)</b>	DFCC will obtain approval for work with or without traffic block in the existing yard from concerned Zonal Railway authority/Employer / Interfacing Agencies and the Contractor shall assist in obtaining such approvals. Levies / charges of the traffic block will be on DFCC's account.
<b>Clause 3 (d- iii, iv &amp; v)</b>	<b>- Deleted -</b>
<b>Additional Clause 3 (d) vii</b>	Indicative Geotechnical information of three (03) major bridges, ninety four (94) minor bridges and the GAD showing the foundation details of one sixty four (164) existing bridges on the adjacent existing IR network are available in the DFCCIL's office, the interested bidders are requested to contact this office on any working day and collect the geotechnical details and the copies of the GAD in the form of CD.

### Design

#### Additional Information

	Issues Raised	Clarifications
1.	The design criteria covers the provisions for the superstructure, which is not in the scope of design, more than the sub structure which is to be designed by the contractor. It may be amended to cater to the substructure more extensively.	The design criteria given in the tender document is applicable to both superstructure as well as substructure. Therefore, no amendment is required, the design criteria along with other codal provision will govern the design of substructure and foundation.
2.	IRS codes include seismic provisions in Bridge Rules therefore reference to IS 1893 confuses the requirements. If DFCCIL wants the contractors to follow different criteria the provisions	<b>Though, IRS code include seismic provisions, but these have not been updated in accordance to the revised IS 1893, therefore, provisions of both the codes has to be considered and</b>

	to be followed should be clearly stated.	bridges design for worst combination of seismic zones.
3.	This section falls in zone III as per map given in Bridge Rules. The design basis may be amended accordingly.	The seismic zone will be as per location of the bridge.
4.	There are several RUBs with Box openings. It is not clear whether DFCCIL will give the detailed design for these boxes also or these need to be designed by the contractor. In the latter case will RCC span of 10m be permitted by DFCCIL in these box type RUBs.	Please refer to clause no. 2 (g) of Employer's Requirement (page no. 15). It has been stated that the contractor shall design and construct RUBs. Further, RCC spans of 10 m or more is permitted provided, there is no change in formation level and no increase in cost.
5.	In the design and build contract it will be preferable to freeze as many details of design as practicable. Since pile foundations are envisaged, the provisions for assessing their vertical and lateral load capacities should be detailed out including the safety factors and allowable values in seismic and non seismic condition.	The provision for assessing vertical and lateral load capacities shall be as per the prevailing guidelines of IS Code as also elaborated in relevant section of Volume-III. However, attention of the bidder is also drawn to page no. 4 of Employer's Requirement defining the term "particular specifications" as those combined specification prepared by the contractor including employer's specification along with employer's design criteria and those part of the contractor technical proposal which specify standards for design and construction which are developed during the design phase.
6.	It will be necessary to give the conceptual arrangement for raising the ROB at Sasaram as the same is given as feasible and cost assessed by DFCCIL.	Yes.
7.	Can it be assumed that the openings shown for bridges are adequate for the waterway and only minor changed will be required and also the field investigations are required mainly for design of protection works.	Yes.

### APPENDIX-1

Clause 1.2 & 1.3, the drawings referred in these clauses has been replaced with the new drawings no. as under:-

Type of Drawing	Drawing Details	Drawing No.
1.2 (Revised)	Typical cross section in bank	HQ/EN/DEG/TYP-EW-1/R-1
1.3 (Revised)	Typical cross section in cutting	HQ/EN/DEG/TYP-EW-2/R-1

### APPENDIX -2

1. Chainage of LC No. 41 given in list of LCs may please be read as 569/16-19 instead of 599/16-19.
2. After list of LCs, list of RUBs may be added as per the details available on DFCC website.
3. List of trees required to be cut along with their location and other relevant details are available on DFCC website.
4. Indicative Geotechnical Information for 94 minor bridges (from Bridge No. 549 – Bridge No. 641) and 3 major bridges (Durgawati, Karmnasa & Bridge No. 611) is available on DFCC website.
5. List of GAD showing foundation details of 164 bridges on adjacent existing track of IR network is available on DFCC website.

### Section 6 General Conditions of Contract

<b>Additional Clause 4.5.3.1</b>	Security amount will be deducted as indicated in clause 4.5.3 of GCC. Accumulated security deposit will be permitted to be replaced by a bank guarantee at the end of each financial year.	
<b>Clause 20.3 (should be replaced and read as)</b>	<b>Referring of Dispute For Conciliation</b>	If the Engineer shall fail to give notice of his decision, as aforesaid, within a period of sixty days after being requested or if either the Employer or the Contractor be dissatisfied with any such decision of the Engineer, then the matter in dispute shall be referred to <b>conciliation as herein provided.</b>
<b>Additional Clause 20.3.1</b>	<b>Conciliation</b>	<p>Within 60 days of receipt of Notice of Dispute, either party shall refer the matter in dispute to conciliation.</p> <p>Conciliation proceedings shall be initiated within 30 days of one party inviting the other in writing to conciliation. Conciliation shall commence when the other party accepts in writing this invitation. If the invitation is not accepted then conciliation shall not take</p>

		<p>place. If the party initiating conciliation does not receive a reply within 30 days from the date on which it sent the invitation, it may elect to treat this as a rejection of the invitation to conciliate and inform the other party accordingly.</p> <p>The conciliation shall be undertaken by one Conciliator selected from a panel of Conciliators maintained by the Employer. The Conciliator shall assist the parties to reach an amicable settlement in an independent and impartial manner.</p>
<p><b>Additional Clause 20.3.2</b></p>	<p><b>Conciliation Procedure</b></p>	<p>The Employer shall maintain a panel of Conciliators with requisite qualifications and professional experience who shall be from serving or retired engineers of Government department, or of Public Sector Undertakings. Out of this panel, a list of three Conciliators shall be sent to the Contractor who shall choose one of them to act as Conciliator and conduct conciliation proceedings in accordance with “The Arbitration and Conciliation Act, 1996” of India. The Party serving notice of dispute on the other party shall also service such notice on the Conciliator chosen as per this Clause. The Employer at the time of offering the panel of Conciliator(s) to be appointed as Conciliator shall also supply the information with regard to the qualifications of the said Conciliator nominated in the panel along with their professional experience, phone numbers and addresses of the Contractor.</p> <p>The Employer and the Contractor shall in good faith cooperate with the conciliator and, in particular, shall endeavour to comply with requests by the Conciliator to submit written materials, provide evidence and attend meetings. Each party may, on his own initiative or at the invitation of the Conciliator, submit to the Contractor suggestions for the settlement of the dispute.</p>

		<p>When it appears to the Conciliator that there exist elements of a settlement which may be acceptable to the parties, he shall formulate the terms of a possible settlement and submit them to the parties for their observations. After receiving the observations of the parties, the Conciliator may reformulate the terms of a possible settlement in the light of such observations.</p> <p>If the parties reach agreement on a settlement of the dispute, they may draw up and sign a written settlement agreement. If requested by the parties, the Conciliator may draw up, or assist the parties in drawing up, the settlement agreement.</p> <p>When the parties sign the settlement agreement, it shall be final and binding on the parties and persons claiming under them respectively.</p> <p>The Contractor shall authenticate the settlement agreement and furnish a copy thereof to each of the parties.</p> <p>As far as possible, the Conciliation proceedings should be completed within 60 days of the receipt of notice by the Conciliator.</p> <p>The parties shall not initiate, during the conciliation proceedings, any arbitral or judicial proceedings in respect of a dispute that is the subject matter of the conciliation proceedings.</p>
<p><b>Additional Clause 20.3.3</b></p>	<p><b>Termination of Conciliation Proceedings</b></p>	<p>The Conciliation Proceedings shall be terminated :</p> <ul style="list-style-type: none"> <li>(a) By the signing of the settlement agreement by the parties on the date of agreement; or</li> <li>(b) By written declaration of the conciliator, after consultation with the parties, to the effect further efforts at a conciliation are no longer justified,</li> </ul>

		<p>on the date of declaration; or</p> <p>(c) By a written declaration of the parties to the conciliator to the effect that the conciliation proceedings are terminated, on the date of declaration; or</p> <p>(d) By a written declaration of a party to the other party and the conciliator, if appointed, to the effect that the conciliation proceedings are terminated, on the date of declaration.</p> <p>Upon termination of the conciliation proceedings, the conciliator shall fix the costs of the conciliation and give written notice thereof to the parties. The costs shall be borne equally by both the parties unless settlement agreement provides for a different apportionment. All other expenses incurred by a party shall be borne by that party.</p>
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**Section 7  
Special Conditions of Contract**

<p><b>Clause 11.1.3 (I) Page No. 7/8 (should be replaced and read as)</b></p>	<p>The percentages governing the price adjustment for the local currency portion (RI) of the contract for various works is given in here under:</p> <p align="center"><b><u>Percentages Governing Price Adjustment</u></b></p> <table border="1"> <thead> <tr> <th rowspan="2"><u>S. No</u></th> <th rowspan="2"><u>Cost Element</u></th> <th rowspan="2"><u>Symbol</u></th> <th colspan="3"><u>COST CENTER</u> (Schedule B of Vol. II "Schedule of Cost")</th> </tr> <tr> <th><u>1,</u></th> <th><u>4,5,6,7,7A,8,9, 10, 11, 12</u></th> <th><u>2,3,</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Fixed</td> <td>P<sup>X</sup></td> <td>65</td> <td>35</td> <td>65</td> </tr> <tr> <td>2</td> <td>Steel</td> <td>P<sup>S</sup></td> <td>0</td> <td>30</td> <td>0</td> </tr> <tr> <td>3</td> <td>Cement</td> <td>P<sub>C</sub></td> <td>0</td> <td>25</td> <td>0</td> </tr> <tr> <td>4</td> <td>Fuel &amp; Lubricants</td> <td>P<sub>f</sub></td> <td>35</td> <td>10</td> <td>35</td> </tr> <tr> <td colspan="3">TOTAL</td> <td>100</td> <td>100</td> <td>100</td> </tr> </tbody> </table>	<u>S. No</u>	<u>Cost Element</u>	<u>Symbol</u>	<u>COST CENTER</u> (Schedule B of Vol. II "Schedule of Cost")			<u>1,</u>	<u>4,5,6,7,7A,8,9, 10, 11, 12</u>	<u>2,3,</u>	1	Fixed	P <sup>X</sup>	65	35	65	2	Steel	P <sup>S</sup>	0	30	0	3	Cement	P <sub>C</sub>	0	25	0	4	Fuel & Lubricants	P <sub>f</sub>	35	10	35	TOTAL			100	100	100
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4	Fuel & Lubricants	P <sub>f</sub>	35	10	35																																			
TOTAL			100	100	100																																			

<b>VOLUME II SCHEDULE OF COSTS, BILLING &amp; VARIATIONS</b>																											
<b>Annexure for Schedule B</b>	<p><b>The modified apportionment of cost for various items under different cost centres are as under.</b></p> <p><b>Cost center 1 (Earthwork)</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">i) Design of formation</td> <td style="text-align: right;"><b>= 5%</b></td> </tr> <tr> <td>ii) Earth Work with (Embankment fill CBR &gt;5)</td> <td style="text-align: right;"><b>= 27%</b></td> </tr> <tr> <td>iii) Earth Work with (Subgrade CBR &gt;8)</td> <td style="text-align: right;"><b>= 26%</b></td> </tr> <tr> <td>iv) Blanketting (CBR &gt; 25%)</td> <td style="text-align: right;"><b>= 28%</b></td> </tr> <tr> <td>v) Side Drains</td> <td style="text-align: right;"><b>= 08%</b></td> </tr> <tr> <td>vi) Retaining Walls/Pitching etc.</td> <td style="text-align: right;"><b>= 01%</b></td> </tr> <tr> <td>vii) Turfing and final taking Over</td> <td style="text-align: right;"><b>= 03%</b></td> </tr> <tr> <td>viii) Testing &amp; Defect Removal if any and any other items of work not covered above</td> <td style="text-align: right;"><b>= 02%</b></td> </tr> </table> <p><b>Cost Centre 4: (Construction of Minor Bridges)</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(i) On confirmation of employer's GAD and drawings and submission of GAD designs</td> <td style="text-align: right;"><b>= 02%</b></td> </tr> <tr> <td>(ii) On approval of Construction reference Drawings</td> <td style="text-align: right;"><b>= 03%</b></td> </tr> </table> <p style="text-align: center;"><b>For Boxes</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(iii) (a) On casting of precast segments substructures</td> <td style="text-align: right;"><b>= 39%</b></td> </tr> <tr> <td style="padding-left: 40px;">(b) On transporting of precast segment to location and laying to alignment and level</td> <td style="text-align: right;"><b>= 39%</b></td> </tr> </table> <p style="text-align: center;"><b>or</b></p> <p><b>For 6.1m (4 span, 3 bridges) &amp; 9.1m (3 span 3 bridges) PSC Bridges</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">(a) Foundation of bridge</td> <td style="text-align: right;"><b>= 34%</b></td> </tr> </table>	i) Design of formation	<b>= 5%</b>	ii) Earth Work with (Embankment fill CBR >5)	<b>= 27%</b>	iii) Earth Work with (Subgrade CBR >8)	<b>= 26%</b>	iv) Blanketting (CBR > 25%)	<b>= 28%</b>	v) Side Drains	<b>= 08%</b>	vi) Retaining Walls/Pitching etc.	<b>= 01%</b>	vii) Turfing and final taking Over	<b>= 03%</b>	viii) Testing & Defect Removal if any and any other items of work not covered above	<b>= 02%</b>	(i) On confirmation of employer's GAD and drawings and submission of GAD designs	<b>= 02%</b>	(ii) On approval of Construction reference Drawings	<b>= 03%</b>	(iii) (a) On casting of precast segments substructures	<b>= 39%</b>	(b) On transporting of precast segment to location and laying to alignment and level	<b>= 39%</b>	(a) Foundation of bridge	<b>= 34%</b>
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(a) Foundation of bridge	<b>= 34%</b>																										

(b) Substructure of bridge	= 22%
(c) Precasting and launching of superstructure of bridges	= 22%
(iv) Completion of drop/curtain wall /returns and Protection works	= 10%
(v) Final completion in all respect	= 05%
(vi) Testing & Defect Removal if any and any other item of work not Covered above.	= 02%
<b>Cost Centre 5: (Construction of Road Under Bridges)</b>	
i) On submission of Contractors GADs, Calculations etc	= 2%
ii) On approval of Construction stage Drawings	= 3%
iii) On casting of the box	= 38%
iv) On completing return walls	= 22%
v) On completion of side drains and footpaths	= 11%
vi) On completion of road work and road sign boards	= 11%
vii) Final Completion of Road Under Bridge	= 11%
viii) Testing & Defect Removal if any and any other item of work not covered above	= 02%
<b>Cost Center 6: (Major Bridges)</b>	
i) On submission of Contractors GADs, Calculations etc	= 2%
ii) On approval of Construction stage Drawings	= 3%
iii) Completion of Foundations including testing as required	= 7%
iv) Completion of piers	= 17%
v) Completion of abutments and wing walls	= 11%
vi) Completion of drop curtain walls and flooring	= 06%
vii) Completion of Super Structure including testing as required	= 27%

	viii) Final Completion	<b>= 05%</b>
	ix) Testing & defect removal if any and any other item of work not covered above	<b>= 02%</b>
	<b>Cost Center 7: (Modification of existing ROB at Bhabhua)</b>	
	i) On submission of Contractors GADs, Calculations etc	<b>= 2%</b>
	ii) On approval of Construction stage Drawings	<b>= 3%</b>
	iii) On completion of diversion & shifting of obstructions	<b>= 11%</b>
	iv) Completion of Foundations including testing	<b>= 22%</b>
	v) Completion of Sub-Structure	<b>= 22%</b>
	vi) Completion of Super Structure including load testing	<b>= 27%</b>
	vii) Completion of approach road works and commissioning	<b>= 11%</b>
	viii) Testing & defect removal if any and any other item of work not covered above	<b>= 02%</b>
	<b>Cost Center 7A: (Design and reconstruction of ROB at Sasaram)</b>	
	i) On submission of Contractors GADs, Calculations etc	<b>= 2%</b>
	ii) On approval of Construction stage Drawings	<b>= 3%</b>
	iii) On completion of diversion & shifting of obstructions	<b>= 5%</b>
	iv) On completion of temporary arrangement	<b>= 6%</b>
	v) Completion of Foundations including testing	<b>= 22%</b>
	vi) Completion of Sub-Structure	<b>= 22%</b>
	vii) Completion of Super Structure	<b>= 27%</b>
	viii) Completion of approach road works and commissioning	<b>= 11%</b>

	<p>ix) Testing &amp; defect removal if any and any other item of work not covered above. = <b>02%</b></p> <p><b>Cost Centre 8: (Construction of a FOB at Sasaram)</b></p> <p>i) On submission of Contractors GADs, Calculations etc = <b>4%</b></p> <p>ii) On approval of above = <b>6%</b></p> <p>iii) On submission of temporary arrangement and erection Methodology = <b>11%</b></p> <p>iv) On completion of Foundations for FOB = <b>6%</b></p> <p>v) On Completion of Columns = <b>17%</b></p> <p>vi) On Completion of Super structure/ erection of girders = <b>32%</b></p> <p>vii) On completion of flooring = <b>11%</b></p> <p>viii) On painting of structure and finishing = <b>11%</b></p> <p>ix) Testing &amp; Defect removal if any and any other item of work <i>Not covered above.</i> = <b>02%</b></p> <p><b>Cost Center 9: (Construction of HL platform at Sasaram)</b></p> <p>i) On completion of work of platform wall &amp; coping = <b>30%</b></p> <p>ii) On completion of earth work of platform = <b>35%</b></p> <p>iii) On completion of platform surfacing = <b>35%</b></p> <p>iv) Deleted</p> <p><b>Cost Center 10: (Service Building &amp; Related Works)</b></p> <p>i) On completion of Work up to plinth = <b>10%</b></p> <p>ii) On completion of flooring and Brickwork up to Lintel Level = <b>10%</b></p>
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	iii) On completion of Plastering	= 10%
	iv) On casting of roof slabs and beams	= 10%
	v) On completion of water supply arrangement	= 10%
	vi) On completion of Sanitary works	= 5%
	vii) On completion of development works of roads,	= 5%
	viii) On completion of doors windows	= 10%
	ix) On completion of finishing work, painting, distemper etc.	= 10%
	x) Boundary walls	= 20%
	xi) Deleted	

<b>VOLUME III DFCC'S SPECIFICATIONS</b>					
<b>Section 1</b>					
<b>Clause 1.3 &amp; 1.35</b>	<b>Maximum moving dimension as detailed in Annexure ii, the maximum vertical dimension may be read as 5.1 meter instead of 7.1 meters.</b>				
<b>Section 3</b>					
<b>Clause 3.5.3</b>	<b>Minimum cess width may be read as 1200 mm instead of 900mm.</b>				
<b>Clause 3.10 Para v &amp; Clause 3.17 para h</b>	<b>The cross slope may be read as 1 in 30 instead of 1 in 40.</b>				
<b>Clause 3.11.1 Para c (i)</b>	<b>The above para shall be modified as "Borrow area should be selected sufficiently away from the alignment and outside DFCC / Railway land."</b>				
<b>Clause 3.18.2 Para C (v)</b>	<b>The above para shall be modified as "The cross slope should be within 1 in 28 to 1 in 30"</b>				
<b>Clause 3.18.2 Para C (ii) &amp; Para 1.5 of Annexure B</b>	<b>The maximum value of compaction appearing in these paras as "98%" shall be replaced with "<i>values as specified in clause 3.7</i>"</b>				
<b>Section 4</b>					
<b>Clause 4.7 &amp; 4.8</b>	<b>These clauses are applicable to minor and major bridges in general and Para (viii) of clause 4.8 shall be applicable for major bridges in particular.</b>				
<b>Section 5</b>					
<b>Clause 5.6 &amp; 5.7</b>	<b>Deleted</b>				
<b>Section 8</b>					
<b>Clause 8.4.1</b>	<b>The content of separator for section 8 shall be read as Bored Piles.</b>				
<b>Section 14</b>					
<b>Clause 14.2.1 Para (iii) (should be replaced and read as)</b>	<b>Mode of manufacture of Ballast shall be machine crushed only</b>				
<b>Para 14.2.2</b>	<b>The table for permissible aggregate impact value and abrasion value shall be modified as under</b>				
	<table border="1" style="width: 100%;"> <tr> <td><b>Aggregate Abrasion</b></td> <td><b>30% Max.</b></td> </tr> <tr> <td><b>Aggregate Impact Value</b></td> <td><b>20% Max.</b></td> </tr> </table>	<b>Aggregate Abrasion</b>	<b>30% Max.</b>	<b>Aggregate Impact Value</b>	<b>20% Max.</b>
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<b>Clause 14.4 Para (ii) (should be replaced and read as)</b>	<b>The first sentenced shall be read as "In case ballast retained on 40mm square mesh sieve exceeds 60% limit prescribed in 14.3 above, payment at the following reduced rates shall be made for the full stack in addition to the reduction worked out</b>				

	<b>at (i) above.</b>
<b>Clause 14.4 para (iv)</b>	<b>Deleted.</b>
<b>Clause 14.8 Para (ii)</b>	<b>Last sentence enclosed in bracket shall be deleted.</b>
<b>Clause 14.8.1</b>	<b>Frequency of testing at ballast for aggregate abrasion value impact value and water absorption shall be modified as “one test for every 15000 cum of supply”.</b>

**Note:** All prospective bidders are advised to see the DFCC website [www.dfcc.in](http://www.dfcc.in) & [www.dfccil.org](http://www.dfccil.org) before submitting their bids to check for any amendments / corrigendum issued in regard to the aforesaid bid till **ten (10) days** before date of opening of the bid.