

Dedicated Freight Corridor Corporation of India Limited
(A Government of India Enterprise)
Addendum No. 1 Dated 31.07.2013
Addendum to the Bidding Documents for

DESIGN, SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF 2X25 kV TRACTION POWER SUPPLY SYSTEM, TRACTION SUB-STATIONS, AUXILIARY STATIONS, SWITCHING STATIONS, AUTO TRANSFORMER STATIONS AND SCADA SYSTEM ON DESIGN-BUILD LUMP SUM PRICE BASIS FOR REWARI – MAKARPURA (VADODARA) SECTION OF WESTERN DEDICATED FREIGHT CORRIDOR

ELECTRICAL AND MECHANICAL WORKS CONTRACT

Ref. : ICB No. EM P-4

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents
1	I	1	33	ITB 20.2 (BDS)	Format and Signing of Bid	Add at the end of the ITB 20.2 (BDS): "All the documents pertaining to the information and experience, as claimed by the Bidder, shall also be signed by the Authorized Signatory of the respective Partners/Specialist Sub-Contractor/Specialist Sub Design-Consultant to whom the information and claimed experience actually belongs to."
2	I	1	34	New ITB 25.5 (BDS)	Bid Opening	Add new ITB 25.5 (BDS) as under: Add the following at the end of first para of ITB 25.5: "The Employer shall also read out the guaranteed maximum losses i.e. Maximum No-Load Loss in watt [I] and Maximum Load-Loss in watt [C] in Traction Transformers and Auto Transformers, as declared by the Bidders in the Form I-B-6(4) of Volume I (Part ½) of the Technical Bid."
3	I	1	36	ITB 31.3 (BDS)	Non-material Non-conformities	Add the following after ITB 31.3 (BDS): "The Employer shall also rectify the Bid with respect to quantifiable Capitalized Cost of the losses in Traction

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						Transformers and Auto Transformers as calculated by the Employer. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect: a) The price of a missing or non-conforming item or component; and b) Capitalized Cost of the losses in Traction Transformers and Auto Transformers as calculated by the Employer in accordance with the clause 6.6 of Section 9 (Volume III), by using the value of maximum guaranteed 'No Load Losses' and maximum 'Load Losses' in watts, I and C respectively, as declared by the bidder in the Form I-B-6(4) of Section 3: Bid Forms of Volume I (Part ½).The Capitalized Cost of the losses as calculated by the Employer in accordance to the above shall be final and binding on the Bidder."
4	I	1	36	BDS (ITB 35.2)	Evaluation of Price Bids	Add following at the end of ITB 35.2 (BDS): "Replace sub-para (e) with the following: (e) Price adjustment due to : (i) Quantifiable non material nonconformities; and (ii) Capitalized Cost of the losses in Traction Transformers and Auto Transformers in accordance with ITB 31.3 & ITB 31.3 (BDS): and"
5	I	2	56	Stage 4: Technical Evaluation	Sub-para 4.1(c)	Replace the word "seven" with "eight", appearing in second line of sub-para 4.1(c).
6	I	2	56	Stage 4: Technical Evaluation	Para 4.1: Procedure for Technical Evaluation	Add a new sub-para (f) as under: "(f) The guaranteed maximum losses i.e. Maximum no-load loss in watt [I] and Maximum load-loss in watt [C] in Traction Transformers and Auto Transformers, as declared by the

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						Bidder in the Form I-B-6(4) of Volume I (Part ½), shall not be used for scoring marks for 'Technical Evaluation Items'. Instead the same shall be used during the Stage 5: Financial Evaluation in accordance with ITB 31.3 (BDS)."
7	I	2	65	Stage 5: Financial Evaluation	Clause 5.3 (a): Part 2 – Detailed Financial Evaluation	Add a new sub-para (v) as under: "(v) Adjustment of the Bid Price in accordance with ITB 31.3 (BDS)."
8	I	3	89	Sub-para (c) under :“SCADA system for Railway Traction or any other power plant monitoring and control commissioned in any one year (12 consecutive months)”	Form EXP - 3 (contd.) Specific Experience in Supply, Installation, Testing and Commissioning for Key Activities	Replace “8 RTU’s” with “20 RTUs” appearing in first line of sub-para (c)
9	I	3	90	Form EXP-4 [3.2 (e) (iv)]: General Design Experience	In the table “Contract with Similar Key Activities”, under the column “Information” and against the row/item “Role in Contract”	Replace the word “Management Contractor” with “JV Partner/Design Consultant/Design sub-consultant/In-house designer.”
10	I	3	92	Form EXP-5 [3.2 (e) (v)]: Specific Design Experience in Key Activities	In the table “Contract with Similar Key Activities”, under the column “Information” and against the row/item “Role in Contract ”	Replace the word “JV Partner” with “JV Partner/Sub-contractor”

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents																								
11	I	3	93	Sub-para (c) under "Design of SCADA system"	Form EXP – 5 (contd.) Specific Design Experience in Key Activities	Replace "20 RTUs" with "8 RTUs" appearing in the third line of sub-para (c)																								
12	I	3			Form I-B-6 (4): Traction Transformers and Auto Transformers – Guaranteed Maximum Losses	In the Part C: Technical Proposal of Section 3: Bid Forms, after the Form I-B-6(3), insert a new form "Form I-B-6 (4): Technical Particulars - Traction Transformers and Auto Transformers – Guaranteed Maximum Losses" attached as Addm 1: Attachment-1A (1 sheet)/Volume I ((Part ½).																								
13	I	3	123-1 to 123-3		D. Checklist of submission of Documents for Technical Bid	<p>1. Insert the following after Sl. No. 13 in the Table of Check List:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No</th> <th rowspan="2">Requirements of Technical Bid</th> <th rowspan="2">Reference Clause No. of Bid Documents</th> <th colspan="2">Bidder's Name</th> </tr> <tr> <th>Yes/No</th> <th>Ref #</th> </tr> </thead> <tbody> <tr> <td>13-1</td> <td>Undertaking from each proposed Specialist Sub-contractor/ Specialist Sub-Consultant, indicating its willingness to associate with the Bidder for the particular activity against which his credentials have been offered by the Bidder in the Bid</td> <td>ITB 17.1 (BDS)</td> <td></td> <td></td> </tr> </tbody> </table> <p>2. Insert the following after Sl. No. 23 in the Table of Check List:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Requirements of Technical Bid</th> <th rowspan="2">Reference Clause No. of Bid Documents</th> <th colspan="2">Bidder's Name</th> </tr> <tr> <th>Yes/No</th> <th>Ref #</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl. No	Requirements of Technical Bid	Reference Clause No. of Bid Documents	Bidder's Name		Yes/No	Ref #	13-1	Undertaking from each proposed Specialist Sub-contractor/ Specialist Sub-Consultant, indicating its willingness to associate with the Bidder for the particular activity against which his credentials have been offered by the Bidder in the Bid	ITB 17.1 (BDS)			Sl. No.	Requirements of Technical Bid	Reference Clause No. of Bid Documents	Bidder's Name		Yes/No	Ref #					
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						<table border="1"> <tr> <td>23-1</td> <td>a) Form EXP-1 b) Form EXP-2 c) Form EXP-3 d) Form EXP-4 e) Form EXP-5</td> <td>ITB 17.1 (BDS) and Para 3.2: 'Check Items' in Stage 3 of Section 2</td> <td></td> <td></td> </tr> </table> <p>3. Insert the following after Sl. No. 32 in the Table of Check List:</p> <table border="1"> <thead> <tr> <th rowspan="2">Sl. No.</th> <th rowspan="2">Requirements of Technical Bid</th> <th rowspan="2">Reference Clause No. of Bid Documents</th> <th colspan="2">Bidder's Name</th> </tr> <tr> <th>Yes/No</th> <th>Ref #</th> </tr> </thead> <tbody> <tr> <td>32-1</td> <td>Form I-B-6 (4): Technical Particulars - Traction Transformers and Auto Transformers - Guaranteed Maximum Losses</td> <td>New ITB 25.5 (BDS), ITB 31.3 (BDS), BDS (ITB 35.2), Para 4.1: Procedure for Technical Evaluation</td> <td></td> <td></td> </tr> </tbody> </table> <p>4. Replace "Form I-B-7: Country of Origin" appearing in 2nd column at Sl. No. 34 with "Form I-B-8: Country of Origin"</p>	23-1	a) Form EXP-1 b) Form EXP-2 c) Form EXP-3 d) Form EXP-4 e) Form EXP-5	ITB 17.1 (BDS) and Para 3.2: 'Check Items' in Stage 3 of Section 2			Sl. No.	Requirements of Technical Bid	Reference Clause No. of Bid Documents	Bidder's Name		Yes/No	Ref #	32-1	Form I-B-6 (4): Technical Particulars - Traction Transformers and Auto Transformers - Guaranteed Maximum Losses	New ITB 25.5 (BDS), ITB 31.3 (BDS), BDS (ITB 35.2), Para 4.1: Procedure for Technical Evaluation		
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32-1	Form I-B-6 (4): Technical Particulars - Traction Transformers and Auto Transformers - Guaranteed Maximum Losses	New ITB 25.5 (BDS), ITB 31.3 (BDS), BDS (ITB 35.2), Para 4.1: Procedure for Technical Evaluation																					
14	I	4	124	Para 4	List of Eligible Countries of Japanese ODA STEP Loans	<p>Replace existing para (4) with the following:</p> <p>4.1 This package shall be implemented under STEP Loan conditions.</p> <p>4.2 STEP Components with cumulative cost assessment amounting to 42.2% of the total contract price of this package (excluding local taxes and duties) are to be sourced from Japan/ Japanese origin – (in terms of provisions contained in Section-4 'List of Eligible Countries of Japanese ODA STEP Loans')</p> <p>4.3. Procurement of following STEP components from Japan/ Japanese origin has been approved for permanent works in this package.</p> <p>(i) Main Traction Transformer</p> <p>(ii) Auto – Transformer</p>																	

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents						
						<p>(iii) Contact Wire (iv) Catenary Wire (v) SCADA – (with or without RTUs)</p> <p>4.4 The Bidder shall certify his assessed STEP ratio in the format (FIN-6) as specified in the Bid Document to demonstrate fulfillment of STEP ratio specified in Para 4.2 above.</p> <p>4.5 Items (i) and (ii) (Main Transformer and Auto Transformer) listed in Para 4.3 are to be first considered for procurement from Japan/ Japanese origin to meet the STEP ratio requirement. If full quantity of items (i) and (ii) is found insufficient to meet the STEP ratio requirement, items (iii), (iv) and (v) are to be considered for meeting the STEP ratio. Part/Full quantity of Conductors (viz. Items (iii) and (iv)) can be proposed to meet the STEP ratio.</p> <p>In case the bidder is not able to fulfil the STEP ratio specified in Para 4.2 above after taking into account full quantities of all items (listed in para 4.3 above), he may propose additional items in its Technical Bid, to meet the minimum STEP ratio specified in para 4.2.</p> <p>Bidders shall not include any financial details or financial aspect pertaining to such 'other item' in his Technical Bid.</p>						
15	I	5	128	Part II/ Part A: Appendix to Bid/ Sub-clause: 8.2	Time for Completion	<p>Replace the table in the 3rd column of ATB 8.2 with the following:</p> <table border="1"> <tbody> <tr> <td>MS-1</td> <td>Completion of all OHE, TSS and Switching Station works in Rewari - Dabla section for commencement of testing of Proto type Loco.</td> <td>109 weeks</td> </tr> <tr> <td>MS-2</td> <td>Completion of all OHE, TSS, SCADA and Switching Station works in Dabla - Iqbalgarh section for commencement of integrated testing.</td> <td>170 weeks</td> </tr> </tbody> </table>	MS-1	Completion of all OHE, TSS and Switching Station works in Rewari - Dabla section for commencement of testing of Proto type Loco.	109 weeks	MS-2	Completion of all OHE, TSS, SCADA and Switching Station works in Dabla - Iqbalgarh section for commencement of integrated testing.	170 weeks
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Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents	
						MS-3 Completion of all OHE, TSS, SCADA and Switching Station works in Iqbalgarh - Makarpura section including SCADA works in OCC for commencement of integrated testing.	178 weeks
						MS-4 Completion of all works as per the scope of works including integrated testing and commissioning and taking over the works by employer on Rewari – Iqbalgarh section.	182 Weeks
						MS-5 Completion of all works as per the scope of works including integrated testing and commissioning and taking over the works by employer on Iqbalgarh – Makarpura section.	190 weeks
16	I	5	129	Part II / Part A: Appendix to Bid/ Sub-clause 14.5. (b).(i)	Plant and Materials for payment when shipped en-route to the site	Delete the entire row pertaining to “ATB 14.5(b)(i): Plant and Materials for payment when shipped en-route to the site”	
17	I	5	129	Part II / Part A: Appendix to Bid/ Sub-clause 14.5.(c).(i)	Plant and Materials for payment when delivered to the site	Delete entire row pertaining to “ATB 14.5(c)(i): Plant and Materials for payment when delivered to the Site”	
18	I	5	141	Part II / Part B: Particular Conditions / Additional Sub-clause 1.1.4.13	Definitions / Money and Payments/ Country of Origin	Replace the last word “Japan” with “Japan/Japanese Origin”	
19	I	5	153	Part II / Part B: Particular Conditions / Sub-clause 14.4	Schedules of Payment	1. In the first sentence of sub-para (a), replace the “Price Schedule 4.1 to 4.7” with “Schedules 5.1 to 5.7” 2. In the last sentence of sub-para (b) replace “Schedules 4.1 to 4.7” with “Schedules 5.1 to 5.7” 3. Delete the following appearing in the 2 nd line of sub-para (c) “(in units as described in the Price Schedule-4 of Section-6 Financial Submissions)”	

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents
20	I	5	154	Part II / Part B: Particular Conditions / Sub-clause 14.7	Payment	Supplement PC 14.7 with the following: “Flow Chart graphically reflecting the Commitment (L/C and L/C issuance stage), Commitment (Disbursement stage) and Transfer type B (payment in Local currency), is attached at Addm- I : Attachment-1(3 Sheets)/Vol I(1/2) ”
21	I (Part 2/2)	6	1	Index of Section 6: Financial Submission	Schedule 3-1 and Schedule 4	In the Index for Section 6: Financial Submission: 1. Delete the existing “Schedule 3-1: Price Summary” 2. Replace the existing “Schedule 4: Price Schedules – Breakdown of Lump Sum Bid Price” with “Schedule 4: Price Schedule – Currency wise Breakup of Lump Sum Bid Price Against Various Cost Centre for Payment Purpose”
22	I (Part 2/2)	6	6	Schedule 2:	Preamble to Price Schedule	1. Replace the existing Schedule Nos. “4.1 to 4.7” with “5.1 to 5.7” appearing in the last line of sub-para 6 2. Replace the existing Schedule Nos. “4.1 to 4.7” with “5.1 to 5.7” appearing in the 2 nd line of sub-para 7 3. Delete the last sentence of sub-para 7 i.e. “The totals from the Price Schedules 4.1 to 4.7 shall be replicated in the Price Summary in Schedule 3”
23	I (Part 2/2)	6	8	Schedule 3-1	Price Summary	Delete the entire Table containing “Schedule 3-1: Price Summary”
24	I (Part 2/2)	6	9-12	Schedule 4	Price Schedules-Breakdown of Lump Sum Bid Price	Replace the existing Tables (at Pg. no. 9 to 12) containing “Schedule 4: Price Schedules – Breakdown of Lump Sum Bid Price including Schedule 4.1 to Schedule 4.7” with “Schedule 4: Price Schedules – Currency wise Breakup of

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents																														
						Lump Sum Bid Price Against Various Cost Centre for Payment Purpose” is attached at Addm- I : Attachment-2(2 sheets)/Vol I																														
25	I (Part 2/2)	6	13-14	Schedule 5:	Payment Schedule	1. Replace the existing Schedules “4.1 to 4.7” with “5.1 to 5.7” appearing in the last line of sub-para 1.2 2. Replace the existing Schedules “4.2 to 4.7” with “5.2 to 5.7” appearing in the first line of sub-para2.7 3. Replace the existing words “for OHE catenary or contact wires” appearing in the 2 nd line of sub-para 2.7 (a) with “for catenary, contact wires”																														
26	I (Part 2/2)	6	14	Sub-para 2.5 of Schedule 5: Payment Schedule	Methodology of claiming payment	Replace the existing words “in four hard copies and a soft copy” appearing in the 2 nd line of first bullet of sub-para 2.5 with “in accordance with PC 14.3”																														
27	I (Part 2/2)	6	15-16	Schedule 5: Executive Summary	Payment Schedule Breakup of Contract Price for Payment	1. Replace the 3 rd and 4 th column of the Table containing “Schedule” with the following: <table border="1" style="margin-left: 40px;"> <thead> <tr> <th colspan="2">Schedule(4th Column)</th> </tr> <tr> <th>Existing</th> <th>Revised</th> </tr> </thead> <tbody> <tr><td>4.1</td><td>5.1</td></tr> <tr><td>4.2</td><td>5.2</td></tr> <tr><td>4.2.1</td><td>5.2.1</td></tr> <tr><td>4.2.2</td><td>5.2.2</td></tr> <tr><td>4.2.3</td><td>5.2.3</td></tr> <tr><td>4.2.4</td><td>5.2.4</td></tr> <tr><td>4.2.5</td><td>5.2.5</td></tr> <tr><td>4.2.6</td><td>5.2.6</td></tr> <tr><td>4.2.7</td><td>5.2.7</td></tr> <tr><td>4.2.8</td><td>5.2.8</td></tr> <tr><td>4.2.9</td><td>5.2.9</td></tr> <tr><td>4.2.10</td><td>5.2.10</td></tr> <tr><td>4.3</td><td>5.3</td></tr> </tbody> </table>	Schedule(4 th Column)		Existing	Revised	4.1	5.1	4.2	5.2	4.2.1	5.2.1	4.2.2	5.2.2	4.2.3	5.2.3	4.2.4	5.2.4	4.2.5	5.2.5	4.2.6	5.2.6	4.2.7	5.2.7	4.2.8	5.2.8	4.2.9	5.2.9	4.2.10	5.2.10	4.3	5.3
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						<table border="1"> <tr><td>4.3.1</td><td>5.3.1</td></tr> <tr><td>4.3.2</td><td>5.3.2</td></tr> <tr><td>4.3.3</td><td>5.3.3</td></tr> <tr><td>4.3.4</td><td>5.3.4</td></tr> <tr><td>4.3.5</td><td>5.3.5</td></tr> <tr><td>4.3.6</td><td>5.3.6</td></tr> <tr><td>4.3.7</td><td>5.3.7</td></tr> <tr><td>4.4</td><td>5.4</td></tr> <tr><td>4.5</td><td>5.5</td></tr> <tr><td>4.6</td><td>5.6</td></tr> <tr><td>4.7</td><td>5.7</td></tr> </table>	4.3.1	5.3.1	4.3.2	5.3.2	4.3.3	5.3.3	4.3.4	5.3.4	4.3.5	5.3.5	4.3.6	5.3.6	4.3.7	5.3.7	4.4	5.4	4.5	5.5	4.6	5.6	4.7	5.7	
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						<p>2. Replace the existing Schedules “4.1 to 4.7” with “5.1 to 5.7” appearing in the 3rd line of foot note under Table containing Schedule 5 : Executive Summary.</p>																							
28	I (Part 2/2)	6	17-38		Schedules 4.1 to 4.7	<p>Replace the existing Schedules 4.1 (Pg. no. 17) to 4.7 (Pg. no. 38) with the revised Schedules 5.1 to 5.7 is attached at Addm 1: Attachment - 3 (22 Sheets)/Vol. I</p>																							
29	II	9	97	4.3.9	Land for Temporary Facilities for Contractor’s Use	<p>Replace the first sentence of the sub-clause 4.3.9 “The total area of land.....Contractor by Employer” with the following: “The Approximate area of land available for Temporary Works at Junction stations and Crossing stations shall be as marked on the Reference Drawings.”</p>																							
30	III	9	9	Para 2.2	Description of Corridor	<p>Supplement the existing sub-para 2.2.3 with the following: “It also includes ICB No. CTP-3A: Construction of Sabarmati and Mahi bridges.”</p>																							
31	III	9	10	2.4.1	Operation Control Centre	<p>Replace the existing words “in National Capital Region” with</p>																							

Sl. No.	Vol. No.	Section No.	Page No.	Clause No.	Item	Addendum to the Bidding Documents
						“at Sabarmati and there shall be a Backup Control Centre (BCC) at Sabarmati/ NCR.
32	III	9	14	3.3 (a)	Scope	Replace the first two lines “Provision of sixteen (16) Traction Substations (220 kV 14 locations, 132 kV – 2 locations)” with “Provision of sixteen (16) Traction Substations (220 kV-- 15 locations, 132 kV – 1 locations)”
33	III	9	14, 15 and 16	3.3 (c), (d), (h) & 7 (n)	Scope	In Cl. No. 3.3 (c) on page 14 <ol style="list-style-type: none"> 1. Replace “17” with “15” in 3rd line 2. Replace “Seventy Seven SSPs” with “Seventy Five SSP” in 4th line 3. Replace “(Seventeen)” with “(Fifteen)” in 4th line In Cl. No. 3.3 (d) Replace “17” with “15” in 3rd line and word at with ‘AT’ and delete midsection SSP from the fourth line Replace “five” with “seven” appearing in 5 th and 7 th line. Delete para (n) In Cl. No. 3.3 (h) on page 15: Replace “Table 3.3-1: Capacities & Number of Auxiliary Transformers to be Provided” with revised table shown as under:

Table 3.3-1 Capacities & Number of Auxiliary Transformers To be provided

	Minimum Capacity in (kVA)	Nos. at each location	Locations	Total Number of Aux. Transformer
Traction Sub-station (TSS)	100	2	16	32
Sectioning Posts (SP)	10	2	16	32
Sub-Sectioning Posts (SSP)	10	2	75	150
Auto Transformer Stations (ATS)	10	2	7	14

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					Crossing + Junction Stations	25	2	30	60
					Signal + Telecom Huts	10	2	171	342
					Level Crossings	10	2	2	4
					Total Auxiliary Transformers : 100 kVA - 32 : 25 kVA - 60 : 10 kVA - 542 Total : - 634				
34	III	9	25	4.4.2.6 (e)	Proven Design & Cross Acceptance Criteria	1. Add words "and repair" in the first line after the word maintenance. 2. Add the following at the end clause" including repairs to equipment such as transformers etc. in India"			
35	III	9	25	Clause No. 4.4.2.6 (f)	Proven Design & Cross Acceptance Criteria	Replace "30%" with "50%" appearing in 2 nd line			
36	III	9	27	4.5.2	Design Submission Requirements.	Replace Cl. 4.5.2 on page 27 as below: "There are five Design Submissions covering the Design Phase and Construction Phases. Refer clause 3.1.13 of Volume - II (a) Inception Report (b) Train and Traction Simulation Report (c) Basic Designs of the System and sub- systems (d) Construction Design (e) As-Built Documents including Final Design manual"			
37	III	9	54	6.6.2	Capitalization of Transformer Losses	In clause in 6.6.2: 1. In line no. 13, replace formula of K_{traction} with the following: $K_{\text{traction}} = \frac{43.80 \times 16 (1+0.16C) \{ (1+0.12)^{25} - 1 \}}{0.12 (1+0.12)^{25}}$ 2. Replace value of F "60%" with "25% appearing under			

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						<p>the formula for $K_{traction}$</p> <p>3. In line no. 16, replace formula of K_{auto} with the following:</p> $K_{auto} = \frac{43.80 \times 190 (1+0.0625C) \{(1+0.12)^{25} - 1\}}{0.12 (1+0.12)^{25}}$ <p>4. Replace the last three lines "If the guaranteed.....$K_{traction}$ and K_{auto} of" with the following:</p> <p>"If the guaranteed values are not achieved by the Contractor as per test plan IEC 60076-1 the transformers shall be rejected."</p>
38	III	9	65	7.1.1	Scope of Works	Replace "77" with "75" and "6" with "7" appearing in 3 rd line
39	III	9	67		Table 7.1-1: List of Proposed Traction Substations (TSS)	Replace the existing Table 7.1-1: List of Proposed Traction Substations (TSS) with the revised table as below:

Table 7.1-1 List of Proposed Traction Substations (TSS)

Nos.	TSS Name	Chainage	DFC			
	Name		Continuous (from Rewari)	CPM	Section	Chainage
1	Ateli (132kV)	35.754	Jaipur	15	21.742	2
2	Maonda	89.100	-do-	14	75.520	1
3	Ringus	143.220	-do-	14	21.400	2
4	Phulera	210.43	-do-	13	35.800	1
5	Kishangarh	263.267	-do-	12	85.400	2

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			6	Mangliyawas	315.867	Ajmer	12	32.800	1
			7	Haripur	375.791	-do-	11	77.000	2
			8	Marwar Junction	432.991	-do-	11	18.800	1
			9	Falna	492.278	-do-	10	62.550	2
			10	Sirohi Road	551.928	-do-	10	2.900	1
			11	Sriamirgarh	610.674	-do-	9	42.240	2
			12	Dharewada	670.767	Ahmedabad	8 (N)	89.780	1
			13	Jornang	730.452	-do-	8 (N)	29.645	2
			14	Sanand	785.017	-do-	6	79.460	1
			15	Heranje (Vaso)	835.212	-do-	6	29.265	2
			16	Bhayali	896.794	Vadodara	5	149.150	1
40	III	9	73	7.4.2	Traction Transformers	1. Replace the word “estimated” with “minimum” appearing in first line of Sub-clause 7.4.2 2. In table 7.4-1, replace “60/84 MVA (Minimum)” with “60/84/100 (Minimum)” appearing in the 2 nd column of 2 nd row.			
41	III	9	73	7.4.3	Traction Transformers	1. Add words “of ONAF and” in the first line of second para of clause 7.4.3 after the word provision. 2. Also add the following at the end of second para “upto 84 MVA and 100 MVA respectively. All the cable works for control and monitoring of the fans and pumps shall be done initially. The fan motor and the pump motor shall be operated on single phase ac supply at 230V Initially , transformer shall be supplied with ONAN cooling arrangement. Fans & cooling pump shall be provided by the Employer in future.			

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42	III	9	84	9.1.1 (e)	Scope of Work	Add the following at the end of the clause: "except works related to traction earthing and bonding of electrified IR tracks"
43	III	9	96	9.5.2	Contact Wire	Replace the existing clause with the following : "The contact wire shall be continuous cast using South Wire process copper alloy of minimum 150mm ² . The contact wire shall be grooved and conform to RDSO Spec. no. TI/SPC/OHE/CW(Cu- Ag)/0100 or any other copper alloy as per equivalent international standard capable of withstanding minimum temperature up to 100 ⁰ C continuously as per EN 50119 and EN 50149."
44	III	9	96	9.5.4	Catenary (Messenger) Wire	Replace the existing clause with the following:- "The catenary wire, shall be 125mm ² copper alloy, conforming to RDSO Spec. No. TI/SPC/OHE/Cat(Mg-Cu)/0120 or DIN 48201 - T1 & T2 , EN 50119, DIN 43138 or any other equivalent inter-national standard capable of withstanding minimum of 100 ⁰ C".
45	III	9	100	9.6.14	The size of catenary and contact wires for yard lines.	At the end of cl. 9.6.14 add the following: "or any equivalent international standard of copper contact and catenary wires withstanding minimum 80 ⁰ C shall be acceptable"
46	III	9	100	9.7 (a)	Cantilever Assemblies	Delete para a) & b) & replace with revised para a) as: "The Modular cantilever assembly (MCS) shall be of proven design & meet cross acceptance criteria. The design should address better reliability apart from ease of maintenance. The components of cantilever shall be corrosion resistant. The number of component shall be bare minimum & easy interchangeability of the component on the same cantilever shall be ensured, so as to have easy maintenance & faster

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						restoration. For better interchangeability, ease in construction & smooth inventory control the design of mast side fitting as well as OHE side fittings of both stay & bracket insulators of the cantilever shall be same. The design shall conform to EN 50119". Cantilever made of fibre shall not be used.
47	III	9	100	9.6.13	Flexible Jumpers and Feeders	Delete all para's from 9.6.13.1 to 9.6.13.6 & revise as follows: Flexible jumper wire shall be fabricated from soft annealed high conductivity copper with stranded conductors. The size of the jumpers shall be decided based on train simulation & temperature rise shall be within limits in extended feed condition. The jumper shall conform to DIN 43138.
48	III	9	102	9.9.1	Auto Tensioning Devices.	Replace the last sentence of sub-clause 9.9.1 with the following: The auto tensioning device shall be as per EN 50119.The Bidder may adopt anchoring of contact & catenary wire can be on separate mast or same mast through regulating equipment. The use of gas ATD shall be restricted to viaducts and tunnels.
49	III	9	105	9.12	Outdoor Steel Parts	Add the following at the end of second paragraph of clause 9.12: "The zinc coating of G.I. structures and steel parts shall be not less than 1000 gm/sq.m."
50	III	9	121	10.4.7	Indicative List of Equipment to be Monitored and Controlled at Remote Locations	Replace the existing Table: 10.1-1 and its foot notes with the revised table along-with foot notes as under:

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Table 10.1-1									
		Equipment	Quantity						
			TSS	SSP (open route)	SSP at Jn Stn.	SP	ATS	AxT	OCC
		Traction Transformers	2	0	0	0	0		0
		Auto Transformers	4	2	2*	4	2		0
		Circuit Breakers	10**	0	1°	2	0		0
		25kV Interruptors	2	4	8	2	0		0
		25kV Isolators	18	12	18	12	2		0
		220/132kV Circuit Breakers	2	0	0	0	0		0
		220/132kV Isolators	5***	0	0	0	0		0
		Power Factor Correction Equipment	2	0	0	0	0		0
		Battery Chargers	2	2	2	2	2		0
		Auxiliary Transformers	2	2	2	2	2	634*****	0
		Low Voltage Distribution Boards	1	1	1	1	1		0
		Current and Potential Transformers	24	2	****	8	0		0
		Doors and gate contacts	3	2	2	2	0		0
		Gate locks, Intruder Alarm	2	1	1	1	2		0
		Fire alarm system	1	1	1	1	0		0
		UPS	0	0	0	0	0		2
		CCTV	1	0	0	0	0	0	0
		Automatic Fault Locator	1	01#	01#	1	0	0	0
<p>(Reference General Traction Power Supply Diagram and drawing no. EM-P4/PS/202/203/204/205 (R)/206)</p> <p>* Auto Transformers may be provided, if required.</p> <p>** 8 in single transformers TSS.</p> <p>*** 4 in single transformers TSS.</p> <p>**** PT may be provided, if required.</p> <p>***** 100 kVA - 32 (at TSS)</p> <p>25kVA - 60 (at Jn. & Crossings stations)</p> <p>10kVA - 542 (at SP, SSP, ATS, S&T Huts, 4 level crossings)</p> <p>° one CB at Rewari Jn SSP for Loco Depot</p> <p># based upon design</p>									

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51	III	9	127	10.4.16	Specific Safety Requirements	Add the following as new sub-clause 10.4.16.3 "10.4.16.3 Safety Requirements <ul style="list-style-type: none"> • The installation design shall incorporate measures to avoid presenting safety hazards to people. • The Systems design shall incorporate measures to provide for its safe management and operation. The Contractor shall ensure that there is no accidental operation of any SCADA equipment. • The Systems shall not give rise, or be subject to, dangerous interactions within the railway or with other systems. • The design of the earthing system shall conform to IS 3043: 1987 and EN 50122-1. SIL-2 shall apply. The System should have fail safe features." 									
52	III	9	171 and 172	13.2.1	Table 13.2-1: Minimum Quantity of Contract Spares	Replace the existing Table 13.2-1: Minimum Quantity of Contract Spares with the modified Table as under:									
Table 13.2-1 Minimum Quantity of Contract Spares															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">S. No</th> <th colspan="2" style="width: 95%;">Spares</th> </tr> </thead> <tbody> <tr> <td></td> <td style="width: 80%;"> A. OHE Spares [The Contractor shall supply a minimum quantity of the items of Spares as given below for every IMD (Intermediate Maintenance Depot) which are eight in number] </td> <td style="width: 15%; text-align: center;">Quantity to be supplied per IMD</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Complete overhead equipment along with Conductors, insulators, attachments, Fittings, Jumpers etc. Main</td> <td style="text-align: center;">5 kms</td> </tr> </tbody> </table>							S. No	Spares			A. OHE Spares [The Contractor shall supply a minimum quantity of the items of Spares as given below for every IMD (Intermediate Maintenance Depot) which are eight in number]	Quantity to be supplied per IMD	1	Complete overhead equipment along with Conductors, insulators, attachments, Fittings, Jumpers etc. Main	5 kms
S. No	Spares														
	A. OHE Spares [The Contractor shall supply a minimum quantity of the items of Spares as given below for every IMD (Intermediate Maintenance Depot) which are eight in number]	Quantity to be supplied per IMD													
1	Complete overhead equipment along with Conductors, insulators, attachments, Fittings, Jumpers etc. Main	5 kms													

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					Lines	
			2		Complete set of overhead equipment along with conductors : yard lines	1 km
			3		25 kV Feeder Conductor	2 kms
			4		Protective Earth Conductors (AEC and BEC)	2 kms each
			6		25kV Cables	300 m
			7		Cantilever Brackets with top and Bottom insulators and termination insulators	20 nos. each
			8		OHE Section Insulators	5 sets
			9		OHE Auto-tensioning device sets	5 sets
			10		Counter weights for ATD	1 set
			11		Stainless steel wire rope for ATD	6 sets
			12		Jumper Cables	200 m each type
			13		Height and Stagger Gauges (mechanical)	2 sets
			14		Height and Stagger gauge (instrument laser based)	1 set
			15		3 T Tirfer	2 sets
			16		1½ T Tirfer	2 sets
			17		3 T Pull Lift	2 Tons
			18		Come along clamps for each type of conductor	4 nos. each
			19		Rope-Pulley	10 nos. each
			20		Steel slings of suitable lengths	6 nos.
			21		Traction Structure	2 of each type
			22		Cutters for conductors	2 nos.
			23		Standard set of tools	3 sets
			24		Crimping tools suitable for droppers, conductors (all types)	2 sets

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			25		Safety helmet	20 nos.
			26		Safety harness	10 nos.
			27		Al. ladder (of required suitable height)	4 nos.
			28		Set of screw drivers and pliers	6 nos. each
			29		Discharge rods with suitable top and bottom clamps	10 sets
			30		Motorized earth auger	02 nos
			31		Portable operated tree pruner	02 nos
			32		Operating rod	10 sets
			33		Digital Dynamometer	02 nos
			34		Inflatable lighting tower	04 nos
					B. Sub-Station Spares	Total for the Railways
			1		Traction transformers and its components	As per specification of the Transformer and Auto- Transformers
			2		Auto -Transformers and components	2 nos complete Auto-Transformers as spares in addition to components spares as per the specifications of Auto Transformers
			3		220 kV switch gear	2 sets each (including Circuit Breaker & Isolator)
			4		132 kV Switchgear	1 set each (including Circuit Breaker & isolator)
			5		220 kV Lightning Arrestor	2 sets
			6		132kV Lightning Arrestor	1 set
			7		25/50 kV switch gear and isolators	1 complete set used in
			8		25 kV Lightning Arrestor with surge counter cum leakage current monitor	10 sets
			9		Protective Relays	2 sets of all types

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			10		Control Auxiliary Relays	5 sets
			11		Bus Bar Conductors & Fittings	1 TSS Set
			12		25 kV circuit breaker – 2 pole	2 sets
			13		25kV Interrupter – 1 pole	2 sets
			14		25kV Current Transformer	5 nos.
			15		25kV Potential Transformer	5 nos.
			16		Post and String Insulators	1 TSS Set
			17		25kV Isolator – 2 pole (motorized)	2 sets
			18		25kV Isolator – 1 pole (motorized)	2 sets
			19		Buckholtz Relay	1 set of each type
			20		220/132kV isolator	2 nos.of each type
			21		AC Power Line Analyser	1 No.
			22		Acoustic Level Test Set (Suitable Range)	1 No.
			23		Auxiliary Transformer	5 nos each type
			24		Vacuum Cleaner	5 nos
			25		Hand Blower	5 nos
					C– SCADA Spares	Total for the Railway
			1		RTU SET - TSS	2 sets
			2		RTU SET - SSP	2 sets
			3		RTU SET - SP	2 sets
			4		Multipurpose Printer	1 set
			5		Modules and cards of RTUs	3 % of each type
					D – Instruments, Test Kits, Tools & Plant	Total for the Railway
			1		Lap Top Computer for diagnostic checks	3

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			2		Signal level meters	3
			3		Dual Trace oscilloscope: 12 channel, 25 MHz bandwidth, sampling rate 20 ms/s	2 sets
			4		Cable Fault Locator	6 sets
			5		AC Power Line Analyser	1 set
			6		Earth Leakage Detector	10 sets
			7		Digital earth tester	10 sets
			8		Digital Megger 2500 V	20 sets
			9		Primary injection test kit	3 sets
			10		Secondary injection test kit	3 sets
			11		Relay Testing Kits	3 sets
			12		Fully automatic Oil dielectric test kit	8 sets
			13		Thermal Imaging Camera	8 sets
			14		Video Camera	3 sets
			15		Dissolved Gas Analyzer Set	3 sets
			16		Digital Multi Meters Megger M 7027 / Fluke 27/Yokogawa 732 series only.	4 sets
			17		Multipurpose Screw driver sets Small and Big	24 sets
			18		Vehicle mounted single phase centrifugal transformer oil filtration plant of 300 liters per hour capacity	2 sets
			19		AC/DC True RMS clamp meter	10 sets
			20		Digital Megger 500V	10 sets
			21		CB analyzer kit	4 sets
			22		Soldering stations	20 sets
			23		Vehicle mounted single phase centrifugal transformer oil filtration plant of 2500 liters per hour capacity	2 sets
			24		GPS based current collection equipment along with Video Camera.	8 sets

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			25		Road based maintenance Van for OHE/ Power Supply	8 sets
53	III	9	182	15.1.9	Training requirements	Add the following at the end of sub-clause 15.1.9: "The training man-days indicated above are inclusive of training at manufacturer's works and at site indicated in sub-clause 15.8.1.1."
54	III	9	183	15.2.3	Mock Up for Training	Replace the following "clauses 13.2.1, 13.2.2 and 13.7 of this Specification" appearing in 3 rd & 4 th line of the sub-clause 15.2.3. with "the training plan described below in clause 15.3"
55	III	9	190	16.4.3	Quantity of Manuals	Delete the Sub-clause no. 16.4.3.
56	III	9	226	19	Part III: Climatic and atmospheric conditions	Add a new row (xiii) at the bottom of the Table for the following: "(xiii) The average ambient temperature shall be taken 35°C"
57	III	9	249 - 349	Part XI and Part XII	"Part XI - Specifications for 60/84 MVA, 220/132 kV/54 kV SCOTT-CONNECTED Traction Power Transformer for 2x25 kV AT Feeding System" And "Part XII - Specification for 8 MVA, 54 kV, 50 Hz Auto Transformer for 2x25 kV AT Feeding System"	Replace existing Part XI (page no. 249 – 298) and Part XII (299 – 349) with the revised specifications for Transformers as attached as Addm 1: Attachment - 4 (94 Sheets)/Vol III
58	IV (Part 2/ 2)	10			Content Sheet (Volume IV: Data Book)	In the Content Sheet, 1. Delete "Item no. 2.1 and 2.2" under the heading 'Rolling Stock Characteristics Data'

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						2. Add Item No. 4 as under at the end of the Content Sheet: "4. Showing Location of Traction Supply Control Posts for EM P-4"
59	IV (Part 2/2)	10	IV-2-1-2 & IV-2-2-3	2	Rolling Stock Characteristic Data	1. Insert graphs "Speed Vs Traffic Effort/ Power Characteristics" and "Speed Vs Breaking Effort Characteristic" (in 2 sheets), as enclosed at Addm 1: Attachment - 5 (2 Sheets) and 2. Add Specifications and Standards for Electric Locomotives as enclosed at Attachment 5B (68 Sheets)/ Vol IV(2/2)
60	III	9	56	6.8.2	Power Quality	Complete para from "based on the characteristics of the traction supply --- installed at each TSS deleted & replaced with "assuming power factor of 0.85 for the train journey, power factor correction shall be improved to 0.95 using 50% static & 50% variable capacitors". Add "The harmonics produced by the locomotives are furnished in Addm-1: Attachment – 5A (2 Sheets)/ Vol IV(2/2) .
61	IV (Part 2/2)	10				Insert the "Table: Showing Location of Traction Supply Control Posts for EM P-4" at the end of the Data Book (Volume IV- part 2/2) as enclosed at Addm 1: Attachment - 6 (8 Sheets)/Vol IV(2/2)
62	V (Part 1/4)	11			VOLUME-V Reference Drawings (1/4)	Changes are as per Addm-I : Attachment - 7 (65 Sheets)/Vol V(1/4) containing new and revised drawings of Volume V.
63	II	8	11	1.4	Codes and Standards	Add a new clause 1.4.6 as under: "The materials and workmanship specifications have been based on existing Indian Standards including RDSO Standards and International Standards. Apart from the basic data, specifications etc. all items of works shall be governed by the codes, standards and specifications as

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						detailed in sections 8 and 9 of the document. If the codes, specifications and standards are revised/ corrected/amended upto 28 days before the due date of submission of the bid proposal, the contractor will be responsible for detailing in his specification of the standard on which his materials and workmanship will be based, and these will be of similar or higher standard than those already mentioned in the above documents.”
64	III	9	18	3.5.1	Documentation	Revise para I) as “Approval of specifications which are drawn by the bidder based on functional requirements for which RDSO/CORE specifications are not available or used first time in Indian Railways”.
65	III	9	44	Table 5.1-3	Voltage requirements	Replace “freight corridor” in 1 st row with “Values”.
66	III	9	65	7.1.2	Scope of works	Replace 6 with 7 in 6 th line. Table 7.1-3 si.no 1 replace chainage “14.239” with “14.308”. S.No.28 replace chainage “11.482” with “11.180”, S. No. 66 replace chainage 79.175 with 79.465.
67	III	9	83	8.2.5	Auxiliary Transformers	Add in the last para “The auxiliary transformer shall have losses as per specified criteria of BEE for 5-star rating”.
68	III	9	100	9.6.15	Flexible Droppers	Add “Current carrying” after Each in 1 st line. Replace “DIN 482” with “DIN 43138” in 4 th line.
69	III	9	101	9.8	OHE assemblies, fittings & hardware	Delete para 9.8.

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70	III	9	111	10.1.2	Scope of works	Replace "Seventy Seven" with "Seventy Five" in 12 th line. Replace "Five" with "Seven" in 14 th line. Add Metering arrangement at TSS. Add & Backup Control Centre. Add Provision of adequate data servers, web servers, application servers with redundancy. Add Protection from viruses & other security protections.
71	III	9	130	10.6-1	Typical requirement for I/O list	Add for telesignal "All relay failure, CB/BM low gas pressure, transformer oil temperature, Bucholz relay alarm, Pressure relief device, RTU door open, CCTV, transformer oil temperature trip, transformer winding temperature trip, transformer oil pump ON/OFF, HV/LB trip circuit failed fan failure alarm. Add to measurend list HV Voltage & current Local Breaker fail (LBB) driving the tap change motor, fiber optic temperature sensor'
72	III	9	96	9.5.1	Indicative size of conductors	In table 9.5-1 remarks column replace "upto" with "minimum".
73	III	9	254	Part- XI 5.1 (15) & (16)	Rating and General Data	Sr. No. 15 (1) "5s" replaced with "2s" sr. no. 16 "1.55T" replaced with "1.70 T"
74	III	9	25	4.4.2.6(d)	Cross Acceptance	Add in the last para of 4.4.2.6 9(d) 'fresh prototype will be conducted if prototype test has not been conducted in similar environmental condition stipulated in the Bid Document. Prototype test will be witnessed by RDSO or any authorized agency approved by the employer keeping the contract and project schedules in view'
75	III	9	24	4.4.1	Conformity with Governing specification and statutory requirements	Replace "Indian Electricity Rules" by "Safety Guidelines 2010 issued by CEA"
76	III	9	106	9.13.2.5	Section insulators	Delete para 9.13.2.5