

Dedicated Freight Corridor Corporation of India Limited
(A Government of India Enterprise)
Addendum No. 3 Dated 09.10.2013
Addendum / Amendments to the Bid 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 / Amendments to the Bid Documents
1.	II	8	13	1.5.3(2)	Validation of Data & Additional Surveys	Replace the last sentence starting from “In regard to” and ending with “be taken up” appearing in the 11 th line of the second paragraph with the following: “The mitigation measures to be taken shall consist of safety earthing and bonding of all steel structures and tracks including those of Indian railways running parallel to tracks. In regard to mitigation measures to be taken by outside bodies and any other mitigation measures on Indian railways, the Employer shall decide the agency through which such measures are to be taken up.”
2.	II	8	115	5.5.1 (j)	Testing and Commissioning	Add the following new sentence at the end of the clause: “ The Contractor shall bear all costs of Employer/ Employer’s authorized representative’s visit including passage / stay etc in case of retesting “
3.	II	8	115	5.5.1 (k)	Testing and Commissioning	Replace “ the Engineer’s visit “in third line as under “ RDSO or any authorized agency or Engineer’s visit in India/ Abroad “
4.	III	9	16	3.3(o)	Scope of Works	Delete the entire sentence starting from “Earthing and bonding” and ending with “currents of the DFC.” appearing in the 6 th , 7 th , 8 th and 9 th lines of the clause and replace with the following :- “The mitigation measures to be taken shall consist of safety earthing and bonding of all steel structures and tracks including those of Indian railways running parallel to tracks. In regard to mitigation measures to be taken by outside bodies and any other mitigation measures on Indian railways, the Employer shall decide the agency

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			207	Appendix 17.1	Sl. No. 42 of Addendum no. 1 MATRIX OF INTERFACE REQUIREMENT	through which such measures are to be taken up.” Sl. No. 42 of Addendum no. 1 may be treated as deleted. Replace existing Appendix 17.1 “MATRIX OF INTERFACE REQUIREMENT FOR SYSTEM DESIGN & CONSTRUCTION OF TRACTION SUPPLY CONTRACT (EM-P-4) & OTHER CONTRACTS“ with modified Appendix 17.1 attached as ADDM -3: Attachment -1 (two sheets)/ Vol. III
5.	III	9	17	3.3(q)	Scope of Works	Replace the portion starting from “0.5 m above highest ----- ducts in building” appearing in 4th,5 th and 6 th lines of the clause with the following:- “To obtain the lowest point of the cable trench 0.5 meter above the highest flood level”.
6.	III	9	22 111 & 112 120	3.8.1 (b), (c) (d) & (e) 10.1.2 (c) & (e) 10.4.5.1	Item of Work excluded form the contract SCADA (Scope of work)	Replace “ OCC” with “OCC/BCC” in paragraphs (b), (c) & (e) Add “and BCC” at the end of the clause in para 10.1.2 (c) and after OCC in 2 nd line of clause 10.1.2 (e). Replace “NCR” with “Sabarmati” in clause no. 10.4,5.1
7.	III	9	25	4.4.2.6 f)	Cross Acceptance Criteria	Replace the words “bank guarantee” appearing in the 5 th line of the clause by “Joint Deed of Undertaking by the Qualified Equipment Manufacturer along with the Contractor and Indian Equipment Manufacturer/Indian Partner”
8.	III	9	26 56	4.4.3 t) 6.9.4	The design philosophy Switchgear and panels	Delete the clause”4.4.3t” from the Design Philosophy” Delete the clause “6.9.4.”

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			129	10.6.1.2	Design Criteria	Delete the clause "10.6.1.2".
9.	III	9	37	4.5.14.1	Construction Design	Add the words "site requirements and" in between the words "taking account of" and "agreed responses" appearing in the 3 rd line
10.	III	9	Sl. No. 23 of addendum no. 2 at page 11	5.3.1.	Train Operation	i) Add " 50 % of " between the word 'consider' and 'the' in the 3 rd line of 2 nd paragraph. ii)Add the following at the end of last sentence ending with "after every 30 kms", as specified in Sl. No. 23 of addendum no. 2 "and maximum dwell time of 5 mins and wind speed of 0.5 m/s"
11.	III	9	49	6.1.2.2, 6.1.3, 6.1.4 & 6.1.5	Traction Sub-Station, SP, SSP & ATS	Add the following after Automatic Fault Locator "working on AT Neutral Current Sensing"
			52	6.4.1	Surge Arresters and Lighting Protection	Delete the portion "and Auxiliary Transformer Locations." appearing in the 2 nd line of the clause. Replace "," with "and" in between SSP, ATP in 1 st line. Add the following at the end of paragraph : "all auxiliary transformers shall have provision of spark gap as per RDSO's latest instructions"
12.	III	9	55 & 77	6.7.1 & 7.8.9.1	Short Circuit Capacity	(i) Replace " Short Circuit Capacity – 1 second " in 1 st row & 4 th column in table No. 7.8.9.1 with " Short Circuit Capacity – 3 seconds " (ii) Replace maximum (kV) of return cable " 3.3 ac " in 3 rd row & 3 rd column in table 7.8.9.1 with " 1.1 ac "
13.	III	9	56	6.8.2.2	Power Quality	Replace the last paragraph below the table 6.8.2.2 as under : "The Contractor shall prepare a detailed document on power quality and obtain prior approval from the Engineer."
14.	III	9	73	7.4.-1	Salient features of traction transformers	Replace "rated secondary voltage and rated secondary current" appearing in 6 th and 7 th rows from 55kV to 54kV and 602 Amps to 556 Amps respectively and add /145kV in 10 th row.
15.	III	9	79	7.11.1	Cable Trench	Add the following at the end of paragraph "the floor of the lowest point of cable trench shall be at a minimum of 0.5 m above highest flood level being the lowest point in the installation"

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16.	III	9	81	7.14 (New proposed)	Proposed locations of Switching Stations and details of equipments	Add new para "7.14 – Numbering of Equipments" as under: "The number plates of equipments in switching stations shall be non retro-reflective type and meet the guidelines furnished in clause 3.32 of ACTM Vol. II, 2010. The final plan shall be approved by the Engineer".
17.	III	9	94	9.4.3.3	Sub- sectioning Posts (SSP)	Add the following at the end of last sentence: "The neutral section between DFCCIL and Indian Railway OHE , including the connection to IR shall be installed by the EMP 4 contractor ."
18.	III	9	96 and sl. No. 43 of addendum no. 1 at page 15	9.5.2	Contact Wire	Replace Sl. No. 43 of Addendum No. 1 as under : "the contact wire shall be manufactured out of continuous cast rods by any process conforming to EN 50149 and withstand minimum 100°C continuously without affecting mechanical properties as per EN 50119".
19.	III	9	96 and sl. No. 44 of addendum no. 1 at page 15	9.5.4	Catenary (Messenger)/ Wire	Add the following at the end of last sentence at Sl. No. 44 of Addendum No. 1 "The Catenary wire manufacturer should have manufactured and supplied any copper / copper alloy conductor for traction application in conformity with clause 4.4.2.6" Add the word "minimum" in between "shall be" and "125 mm sq" in the first line of the second paragraph of Sl. No. 44 of Addendum no. 1.
20.	III	9	101	9.7.1 (new proposed)	Cantilever assemblies for yard & Other fittings	Add new clause "9.7.1 – Cantilever assemblies for yard & Other fittings as under : "Cantilever assemblies, ATD, jumpers, droppers, & Other fittings in yard except first loop shall be as per Indian Railways' design "
21.	III	9	103	9.11.1	Structure /Uprights and their Foundations	Delete the sentence "Design method as adopted-----followed for guidance"
22.	III	9	103	9.11.2	Structure /Uprights and their Foundations	Replace "Mix" with "minimum" in the 3 rd line of para 9.11.2. Delete "in-concrete" in between "structures and the nominal" in the 4 th line.
23.	III	9	105	9.11.9 (New proposed)	Structure /Uprights and their Foundations	Add new sub clause "9.11.9 as under: Signages shall be provided on steel structures/stand-alone boards. All Signages shall be retro-reflected type in OHE (not PSI). The locations of signs shall be as under but not limited to : i) Number plates on masts / portals on up and down route. ii) Critical locations like before the stop signals and before

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						<p>the permanent speed restrictions.</p> <p>iii) Up and Down gradients</p> <p>iv) All other warning boards as per ACTM like DJ Open, DJ Close, 500 m board, 250 m board coasting board, danger board, brake testing board, overhead crossing boards etc.</p> <p>v) Sigma strip in fog prone area.</p> <p>vi) Other unusual locations</p> <p>Guideline furnished for numbering in clause 3.31 of ACTM Vol. II 2010, shall be followed. This shall be finally approved by the Engineer”.</p>
24.	III	9	105 and Sl. No. 49 at Page No. 16 of Addendum no. 1	9.12	Out Door Steel Parts	<p>Sl. No. 49 of Addendum no. 1 is withdrawn / deleted.</p> <p>Replace the entire paragraph no. 2 of Cl. 9.12 of vol III by the following :</p> <p>“The zinc coating for steel structures and parts shall be as per RDSO Specification No. ETI/OHE/13 (4/84) i.e. minimum coating of zinc shall be 610 gm/m², except for marine and chemically polluted areas identified as a result of pollution mapping by the contractor and approved by the Engineer, where the coating shall be 1000 gm/m².”</p>
25.	III	9	116	10.4.2.2	Design Stage – Asset Management	Delete the clause 10.4.2.2 i (s)
26.	III	9	125	10.4.13.3	Maintainability Requirement	Delete the last sentence : “ Other maintenance strategies such as condition monitoring shall be incorporated “
27.	III	9	171 & Sl. No. 52 of Addendum no. 1. (Sl. No 2 of B. sub-station - spares)	13.2.1	Contract Spares	Add the following in the column for total for the railways at the end. “One no. each of 25kA and 35kA Short Circuit current rating capacity respectively”.
28.	III	9	210	18.2.6	Possession Management	a) Replace the words “56 days” appearing in the 3 rd line of clause 18.2.6 with the words “28 days”.

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						<p>b) Replace “requested” with “required” in the 6th line. c) Replace “Engineer” with “Contractor” in the 6th line d) Delete repeated word “Engineer” appearing in the 4th line from the bottom of clause 18.2.6.</p> <p>e) Delete the last sentence “The cost of arranging such possession shall be borne by the Engineer”.</p>
29.	III	9	210	18.2.7	Possession Management	<p>Replace the portion of the clause from “bear the cost and time incurred by the Contractor for such possession failure.” appearing in the 2nd and 3rd lines by the following:- “attempt to reschedule the programme for a later date, .In no case, any claim shall be entertained by the Engineer for the failure to obtain the possession.”</p>
30.	III	9	Sheet 6 of 94 of addm no. 1 attachment - 4	5.1	Sl. No. 14 of Rating and General Data	<p>Replace no load losses kW from “50” with “55”. Replace total load losses kW from “250” with “275”. Insert new para (3) Total Losses 320 kW</p>
31.	III	9	Sheet 57 of 94 of addm no. 1 attachment - 4	5.1	Sl. No. 12 of Rating and General Data	<p>No load loss “6.5kW” may be replaced by “7.5 kW . Replace load losses kW from “24” with “26.5”. Insert new para (3) Total Losses 34 kW.</p>