

Dedicated Freight Corridor Corporation of India Limited
(A Government of India Enterprise)

Addendum No. 8 Dated 15.05.2014
Addendum / Amendments to the Bid Documents for

DESIGN AND CONSTRUCTION OF SIGNAL AND TELECOM WORKS FOR DOUBLE LINE RAILWAY INVOLVING TRAIN DETECTION SYSTEM, ELECTRONIC INTERLOCKING IN STATIONS, AUTOMATIC SIGNALLING IN BLOCK SECTIONS, TRAIN MONITORING AND DIAGNOSTIC SYSTEM, INTERLOCKING OF LEVEL CROSSING GATES, DISPATCH TELEPHONE SYSTEM, FIBER OPTIC COMMUNICATION SYSTEM, GSM(R) SYSTEM, DIGITAL ELECTRONIC EXCHANGE SYSTEM, MASTER CLOCK SYSTEM AND VIDEO SURVEILLANCE SYSTEM FOR REWARI – MAKARPURA SECTION INCLUDING TESTING AND COMMISSIONING ON DESIGN-BUILD LUMP SUM PRICE BASIS OF WESTERN DEDICATED FREIGHT CORRIDOR

SIGNALLING AND TELECOMMUNICATION WORKS CONTRACT
(Rewari – Makarpura of Phase I)

Ref. : ICB No. ST P-5

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376	I (1/2)	5 Part II	140 & 146-150 of Vol I and Pg. 8 (Item 219) of Addendum No. 4 with its corresponding attachment: Addm 4-1	ATB 1.1.5.9 and its corresponding Table of Coordination Events and Key Milestones	Coordination Events	1) Replace the “ Table: Coordination Events and Key Milestones ” included in the ‘Attachment: Addm 4-1’ of Addendum No. 4 with “ Revised Table: Coordination Events and Key Milestones ” attached as Attachment: Addm 8-1. 2) The respective Coordination Events of ST P-5A have been included and MS-2 & MS-5 duration have been modified in the revised table.
377	I (Part ½)	5	140 of Vol. I and Pg. 6 of Addendum No. 4	ATB 1.1.3.3 and Sl. No. 214 of Addendum No. 4	Time for Completion	In amendment at Sl. No. 214, replace the following: “ Rewari – Iqbalgarh: 168 Weeks (1176 days) ” as appearing in the first line with “ Rewari – Iqbalgarh: 160 Weeks (1120 days) ”.
378	I (Part ½)	5	140 of Vol. I and Pg. 7 of	ATB 1.1.3.7 and Sl. No. 215 of Addendum No.	Defect Notification Period	In the amendment at Sl. No. 215, replace the following: “ Rewari – Iqbalgarh: 168 Weeks (1176 days) ” as appearing in the first line with “ Rewari – Iqbalgarh: 160 Weeks (1120 days) ”

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			Addendum No. 4	4		
379	I (Part ½)	5	141 of Vol. I and Pg. 7 of Addendum No. 4	ATB 8.2 and Sl. No. 217 of Addendum No. 4	Time of Completion	In the amendment at Sl. No. 217: (a) Replace “ 156 W (1092 days) ” as appearing against the milestone MS-2, with “ 148 W (1036 days) ” and (b) Replace “ 168 W (1176 days) ” as appearing against the milestone MS-5, with “ 160 W (1120 days) ”.
380	I (Part ½)	5	161 of Vol. I and Pg. 8 & 9 of Addendum No. 4	PC 8.2 and Sl. No. 221 of Addendum No. 4	Time for Completion	In the amendment at Sl. No. 221: (a) Replace “ 156 W (1092 days) ” as appearing in the sub-para (2) (for milestone MS-2), with “ 148 W (1036 days) ” and (b) Replace “ 168 W (1176 days) ” as appearing in the sub-para (4) (for milestone MS-5), with “ 160 W (1120 days) ”.
381	I (Part ½)	5	164 of Vol. I and Pg. 10 of Addendum No. 4	PC 10.2 and Sl. No. 223 of Addendum No. 4	Taking Over of Parts of the Works	In the amendment at Sl. No. 223, replace the following: “ Rewari – Iqbalgarh: 168 Weeks (1176 days) ” as appearing in the first line with the “ Rewari – Iqbalgarh: 160 Weeks (1120 days) ”.
382	Not Used					
383	Not Used					
384	Not Used					
385	I (Part 2/2)	6	Pg. No. 38 of Vol I Pg. No. 12 of Addendum No. 4 and corresponding Pg. No. 10 of Attachment: Addm 4-4	Schedule 5.4.1	Schedule 5.4.1: Basis of Payment for Interim Payment for Automatic Signalling in Block Section: Installation of Signal Equipment in Auto Location Hut (Except MSDAC)	In the Schedule 5.4.1 of Attachment: Addm 4-4 of Addendum No. 4: In column for ‘Payment Event’ against item 5.4.1.2, insert the following text: “, Auto Location Huts and associated accessories ” after the word “Equipment”.
386	II	8	14	4.13.6.6	O&M Manuals - Language	(i) In the existing Clause, insert word “generally” after word “shall”.

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						(ii) Add the following sentence at the end of the existing Clause: “However, the Operating/ User Manuals and Maintenance Manuals of Systems/ Sub-systems suitable for use at technician level shall be prepared both in English and Hindi languages unless otherwise instructed by the Engineer.”
387	II	8	121	25.1.7	O&M Documentation - General	In the 1 st line of the Clause, replace words “English and Hindi” with word “language”.
388	II	8	125	26.1.3	Training Requirements	Replace the existing Clause with the following: “The training instructors for training courses shall be qualified, competent, with sufficient years of practical experience and possess good communication skills in the relevant fields. The training shall be in English and Hindi languages as required. All training material for these courses shall be in English and Hindi respectively.”
389	V	11	-	V-4-1-1	List of buildings in Junction and Crossing stations	1) In the table at V-4-1-1, insert the following quantities of covered area of 74 Sqm under OHE and PSI in IMD Sub-depot at the following stations: 1 Sriamirgarh 2 Birolia 3 Jawali 4 Chandawal 5 Bangugram 6 Sardhana 7 Kishangarh 8 Sakun 9 Pachar Malikpur 10 Baghega 11 Dabla 12 Ateli 2) Add the following in the footnote: “Additional 2 numbers of digital slave clocks for each of these 12 stations shall be provided for OHE & PSI in IMD Sub-depot.”
390	II	8	15	4.14	Warranty	Add new sub-clause 4.14.2 after 4.14.1 as under:

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					Certificates of OEMs	"Validity period of Warranty Certificates shall start from date of expiry of DNP."
391	III Part 1	9	3	1.3.8	Employer's Requirements	Replace the existing Clause duly modified as per item No. 38 of Addm 2 with the following: "1.3.8 Connections to IR & Sidings: (a) The tracks connecting DFCCIL Junction stations with IR stations shall be provided with Absolute Block Signalling with block/ slot working. Where such track lengths are less than 4 Kms., any of block/ slot working may be adopted. For longer track lengths, Absolute Block working using Solid State Block Proving by Axle Counter (DIGITAL) as per RDSO specification No. RDSO/SPN/175 shall be provided. (b) Wherever sidings connected to IR stations shall get the connection transferred to DFCCIL stations, existing system of Block/ Slot working shall be transferred from IR station to DFCCIL station (c) Details of Connections to IR & Sidings are given in Vol. V of Bid Documents."
392	III Part 1	9	10	3.1.2(iii)	Design Criteria	The Clause is deleted.
393	III Part 1	2	8	2.2	Abbreviations	Add new Abbreviation BPAC for "Block Proving by Axle Counter".
394	III Part 1	2	13	3.3.2	Standards	Add following new Standards: (i) RDSO/SPN/203 for "Electronic Interlocking for big yards." (ii) IRS: S 105 for "Block Proving by Axle Counter using UFSBI".
395	III Part 1	2	1	Annexure 7-4	Interface with IR	(i) In first bulleted item of Clause 1.4, add words "and existing sidings" after the word "stations". (ii) In first bulleted item of Clause 1.5, add words "and existing sidings" after the word "stations". (iii) Add new Clause 1.6 and 1.7 as under: "1.6 Following guidelines shall be followed while providing signaling arrangement with IR's Junction stations: (a) Wherever BPAC is provided, half set of BPAC equipment

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						<p>to be provided at IR's station shall be handed over by the Contractor to IR's designated representative for installation by IR.</p> <p>(b) The signaling cables required for working the signaling arrangement including Block/ Slot working shall be laid by the Contractor to cover at least the length of connecting line constructed by DFCCIL. Details of the same shall be decided by the Contractor with IR's representative in interface.</p> <p>1.7 Wherever connection to existing sidings is getting shifted from IR to DFCCIL, set of equipment for Block working of siding presently working at IR station shall be collected by the Contractor from IR's designated representative and provided at DFCCIL station."</p>
396	III Part 1	8 (Annexure 7.6)	Pg. 1	1.5 (e)	Laying of cables:	Add following sentence at the end of the Clause: "In case of any dispute, the matter shall be referred to the Engineer whose decision shall be final and binding on both the Contractors."
397	III Part 1	9	4	1.4.3.2	TMS terminals	Add following sentence at the end of the Clause: "These terminals are included in the Misc. User terminals listed in next Clause."
398	III Part 1	9	4	1.4.3.3	Misc. User terminals	<p>The Clause is replaced with the following: "19 No. of Miscellaneous user terminals shall be provided with its location and quantity tentatively fixed as under: IR's Junction stations: 9 IR's Divl. Control Offices: 5 IR's Zonal. Control Offices: 3 DFCCIL's Corporate Office: 2 For IR's terminals connectivity, the Contractor shall provide OFC upto Junction stations details of which shall be finalized during Interface with IR."</p>
399	II	8	3	2.1.1	Definitions	Definition of "Inception Report" added as under:

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						"Inception Report: means the set of drawings and documents prepared by the Contractor as the initial design submission during the Design Phase as identified later in this document."
400	II	8	11	4.13	Requirements During Design Phase	Add words "Inception Report," after the words "production of" in first line of the Clause.
401	II	8	11	4.13.1	Design phase	Add words "Inception Report/" before the words "Preliminary Design" in the Heading of the Clause.
402	II	8	11	4.13.1	Design phase	<p>Add the following under the heading "Inception Report/ Preliminary Design":</p> <p>"4.13.1.1 Inception Report</p> <p>(1) Based on the Contractor's Bid Design and Technical proposals during the bidding process, the Inception Report submission shall provide reports, drawings and documents for the purpose of review of the Employer's Requirements and preparation of the Preliminary and Detailed Designs to be developed in the Design Phase.</p> <p>(2) The Inception Report shall be sufficiently detailed to show the main elements of the design of signaling and telecommunication subsystems including the requirements of Auto Location Huts and Telecom Porta Huts.</p> <p>(3) Inception Report shall include items such as EMI/EMC, SIL requirements, system availability and RAMS studies to be undertaken during detailed design etc. necessary to develop Preliminary and Detailed design.</p> <p>(4) In addition general construction, manufacture, installation, testing and commissioning methodology and documentation required to develop the Preliminary and Detailed Designs shall be submitted</p> <p>4.13.1.2 Preliminary Design</p>

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						Preliminary Design shall be developed based on the Inception Report and the following:
403	III Part 2	6	38	6.3.1.1	Certificate from European commissions notified bodies	1) In the sixth line, words “along with his bid” after words “shall submit” are deleted. 2) In the sixth line, words “at the time of Detailed Design or earlier, if such certificates are not available at the time of bid submission,” are added after word “Certificates”.
404	II	7	22	7.5.5.3 (xiv) New sub clause	Certificate from European commission's notified certification Bodies in respect of radio equipment	Add new sub-clause no 7.5.5.3 (xiv) ‘Submit certificates at the time of Detailed Design or earlier, if such certificates are not available at the time of bid submission, from European Commission's notified certification bodies, confirming compliance to the standards in respect of the offered core and radio equipment.’
405	III Part 2	6	58	6.5.1.1 & 6.5.1.1(2)	Mobile (GSM) Phase 2+	1) In the third line of the clause, replace the words “Mobile (GSM) Phase 2 standard for BSS” by “Mobile (GSM) Phase 2+ standard for BSS”. 2) In the 9 th line of sub-clause 6.5.1.1(2), after the words “IN platform”, add words “for main MSS only,” 3) At the end of sub-clause 6.5.1.1(2), add the sentence “It shall be possible to integrate the IN of WDFC at Ahmedabad to any of the INs of IR as and when considered.”
406	III Part 1	9	76	13.6.1(3)	Recommended spares	In the table of recommended spares, add new item at S. No. 7 as given below and renumber existing item Nos. 7 & 8 as 8 & 9: Item: Mechanical signalling items (except bare racks and cabinets). Unit: Nos. Quantity: 5% of each type installed.

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407	III – Part 1	13	76 of 87	13.4.1 – (3)	Software support	The clause is replaced as under: “Software updates shall be provided as and when becoming available till expiry of Defects Notifications Period.”
408	III Part 2	6	59	6.5.1.8	Shunting radios	At the end of the clause, add item numbers 6) & 7) as under: 6) 40 (Forty) numbers of shunting radios. 7) 40 (Forty) numbers of spare batteries for shunting radios.
409	IV	10	187	-	List of level crossings- Package CT P-1	1) For Level Crossing No. LC-108 at S. No. 1, write Type of level crossing as “C Class (Outside station limit)”. 2) LC-109 at S. No. 2 is deleted.
410	IV	10	188	-	List of level crossings- Package 3	For Level Crossing No. LC-1 under the column “Type of LC”, replace “Type B” with “Special Class (Within station limit).”
411	III Part 2	8	79	8.3.3.1	Level crossing gates	In the seventh line, words “Three numbers of level crossing gates” are replaced with the words “Two numbers of level crossing gates”

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412	III Part 2	5	26	New clauses 5.3.8.9 & 5.3.8.9.1 added vide addendum no. 307	Optical Fiber Cable Interference Detection System	Both the clauses 5.3.8.9 & 5.3.8.9.1 are deleted.
413	I (Part ½)	5	124	6.5 (ii) of Form I-B-7	Aftercare services	Delete the whole sub-clause 6.5(ii): Aftercare Service of Installed S&T System and Equipment.
414	I (Part 2/2)	6	Pg. No. 11 of Addendum No. 4 and Sheet 1 and 2 of its corresponding Attachment - Attachment: Addm – 4-2/(Vol I(2/2))	Schedule 4 Sl. No. 229 of Addendum No. 4 and its corresponding Attachment: Addm – 4-2	“Schedule 4: Price Schedules – Currency-wise Breakup of Lump Sum Bid Price Against Various Cost Centre for Payment Purpose”	In the ‘Attachment: Addm 4-2’ of Addendum No. 4: (i) Replace the existing Weightage of Cost Centre (% of total Bid Price) “ 23.94 ” as appearing against S. No. 3 – Electronic Interlocking (Stations) with “ 23.85 ”. (ii) Replace the existing Weightage of Cost Centre (% of total Bid Price) “ 36.53 ” as appearing against S. No. 4 – Automatic signalling in Block section with “ 36.39 ”. (iii) Replace the existing Weightage of Cost Centre (% of total Bid Price) “ 15.35 ” as appearing against S. No. 5 – Train Management & Diagnostic System (TMS) with “ 15.30 ”. (iv) Replace the existing Weightage of Cost Centre (% of total Bid Price) “ 0.01 ” as appearing against S. No. 6 – Interlocking of L.C. Gates with “ 0.29 ”.

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415	I (Part 2/2)	6	Pg. No. 26 of Vol. 1 (Part 2/2) Pg. No. 12 of Addendum No. 4	Schedule 5 Sl. No. 231 of Addendum No. 4 and its corresponding Attachment: Addm – 4-3	Payment Schedule Summary (ST P-5) - Revised	In the 'Attachment: Addm 4-3' of Addendum No. 4: (i) Replace the existing Percentage of Contract Price " 2.30 " as appearing against S. No. 3.3 with " 2.20 ". (ii) Replace the existing Percentage of Contract Price " 23.94 " as appearing against " Total for Electronic Interlocking (Stations) " below S. No. 3.7 with " 23.85 ". (iii) Replace the existing Percentage of Contract Price " 15.28 " as appearing against S. No. 4.2 with " 15.14 ". (iv) Replace the existing Percentage of Contract Price " 36.53 " as appearing against " Total for Automatic signalling in Block section " below S. No. 4.6 with " 36.39 ". (v) Replace the existing Percentage of Contract Price " 4.02 " as appearing against S. No. 5.1.3 with " 3.98 ". (vi) Replace the existing Percentage of Contract Price " 15.35 " as appearing against " Total for TMS - Phase 1 " below S. No. 5.1.4 with " 15.30 ". (vii) Replace the existing Percentage of Contract Price " 0.01 " as appearing against S. No. 6.1 with " 0.29 ". (viii) Replace the existing Percentage of Contract Price " 0.01 " as appearing against " Total for Interlocking of L.C. Gates " below S. No. 6.1 with " 0.29 ".
416	I (Part 2/2)	6	Pg. No. 33 of Vol. I (Part 2/2) Pg. No. 12 of Addendum No. 4 and corresponding Pg. No. 5 of 35 of Attachment: Addm 4-4	Schedule 5.3.3 Sl. No. 232 of Addendum No. 4 and its corresponding Attachment: Addm – 4-4	Schedule 5.3.3- Basis of Payment for Interim Payments on Construction of Electronic Interlocking (Stations): Installation of Power Supply System at Stations and OCC.	In the Schedule 5.3.3 of Attachment: Addm 4-4 of Addendum No. 4: Replace existing value of " 2.3% " as appearing under the column "Cost" with " 2.2% ".

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417	I (Part 2/2)	6	Pg. No. 39 of Vol. I (Part 2/2) Pg. No. 12 of Addendum No. 4 and corresponding Pg. No. 11 of 35 of Attachment: Addm 4-4	Schedule 5.4.2 Sl. No. 232 of Addendum No. 4 and its corresponding Attachment: Addm – 4-4	Schedule 5.4.2-Basis of Payment for Interim Payments on Construction of Automatic signalling in Block section: Installation of MSDAC.	In the Schedule 5.4.2 of Attachment: Addm 4-4 of Addendum No. 4: Replace existing value of “ 15.28% ” as appearing under the column “Cost” with “ 15.14% ”.
418	I (Part 2/2)	6	Pg. No. 46 of Vol. I (Part 2/2) Pg. No. 12 of Addendum No. 4 and corresponding Pg. No. 18 of 35 of Attachment: Addm 4-4	Schedule 5.5.3 Sl. No. 232 of Addendum No. 4 and its corresponding Attachment: Addm – 4-4	Schedule 5.5.3-Basis of Payment for Interim Payments for Train Management & Diagnostic System (TMS): Installation of Auto Location Hut Equipment for Phase 1	In the Schedule 5.5.3 of Attachment: Addm 4-4 of Addendum No. 4: Replace existing value of “ 4.02% ” as appearing under the column “Cost” with “ 3.98% ”.
419	I (Part 2/2)	6	Pg. No. 52 of Vol. I (Part 2/2) Pg. No. 12 of Addendum No. 4 and corresponding Pg. No. 21 of 35 of Attachment: Addm 4-4	Schedule 5.6.1 Sl. No. 232 of Addendum No. 4 and its corresponding Attachment: Addm – 4-4	Schedule 5.6.1-Basis of Payment for Interim Payments on Construction of L.C. Gates: Installation of Electric Lifting barrier	In the Schedule 5.6.1 of Attachment: Addm 4-4 of Addendum No. 4: Replace existing value of “ 0.01% ” as appearing under the column “Cost” with “ 0.29% ”.
420	II	8	15	4.14.1	Warranty Certificates of OEMs	In the first line of the clause, replace the words “should be” with “shall be valid for three years and”.

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421	II	8	120	24	Aftercare services	Delete the whole clause 24: Aftercare Services.
422	III Part 1	9	28	5.7	Block Sections	<p>1) Below the Heading “Block Sections” of Clause 5.7, add sub-heading “A – Main Line:”.</p> <p>2) Below the Clause 5.7.11, add new sub-heading with its Clauses as under:</p> <p>“B – Connecting lines to IR and sidings:</p> <p>Where such connecting lines are provided with BPAC as per requirements given in Clause 1.3.8 (modified as per item No. 391 of Addm 8), some of the important features of the BPAC system to be provided shall be as follows:</p> <p>(i) The Block sections shall be provided with Block Proving by Axle Counter using UFSBI strictly in accordance with the RDSO specifications and shall comprise of Block Panel, Universal Fail Safe Block Interface, DAC, Block Telephone, Relays etc.</p> <p>(ii) The functional requirements/specifications shall be read in conjunction with DFCCIL’s General Rules and its amendments issued thereon.</p> <p>(iii) The BPAC shall work on Optical Fibre Cable System.</p> <p>(iv) Power Supply requirement shall be met from PSS to be provided by the Contractor for S&T systems.</p> <p>(v) It shall not be possible to take the Last Stop Signal (i.e. Advance Starter) to "OFF" unless "LINE CLEAR" has been obtained from station in Advance.</p> <p>(vi) It shall not be possible to obtain "LINE CLEAR" unless Block</p>

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						<p>section and Adequate Distance beyond the First Stop Signal (i.e. Home Signal) of station in Advance is clear of trains.</p> <p>(vii) The Last Stop Signal (i.e. Advance Starter) shall assume "ON" aspect automatically on entry of train into block section and when so replaced shall maintain its "ON" position till a fresh "LINE CLEAR" is obtained on Block Panel.</p> <p>(viii) Block section shall automatically show "TRAIN ON LINE" on panel when train enters into block section on Line Clear.</p> <p>(ix) Train Entry/Exit buzzer To/From block section shall be provided which shall be acknowledged by concerned ASM.</p> <p>(x) Block section shall automatically close on complete arrival of train at receiving station.</p> <p>(xi) A control mechanism shall be provided to prevent the station in rear to take "LINE CLEAR" on its Block Panel without taking consent of receiving station.</p> <p>(xii) A control mechanism shall be provided to "CANCEL" the "LINE CLEAR", already taken by station in rear.</p> <p>(xiii) It shall be possible to close the block section only if no train has entered the Block section for at least 120 seconds after application of Line Clear Cancellation with cooperation of station in rear.</p> <p>(xiv) Separate Block Telephones shall be provided for every block section.</p> <p>(xv) Separate evaluators shall be provided for UP and DN lines.</p>

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423	III Part 1	9	29	5.8.1	Level crossing gates	<p>Replace the existing Clause with the following: "5.8.1 All level crossing gates shall be interlocked with signals keeping the following in view: (a) All these level crossing gates shall be replaced by ROB/ RUB in future. As such, the system design shall be such that it shall require minimum changes to initial design for the same and it shall be possible to implement the same in a cost effective and time efficient manner. (b) In addition to 2 Nos. LC Gates on link lines as given at page 187- 188 of Vol IV of Bid documents duly updated as per item No. 409 & 410 of Addm 8, a tentative list of 372 Nos. LC gates in Rewari – Vadodara main line section is provided at page 188A-188H (8pages) in Vol. IV of Bid documents through Attachment Addm 8-2. Out of these 372Nos., 289 Nos. of level crossings will be closed and replaced by ROB/ RUB. The Contractor shall, therefore, make arrangement for interlocking of balance 83 numbers of main line LC gates. Details of 83 Nos. of main line LC gates to be interlocked shall be provided by the Engineer at Preliminary Design stage."</p>
424	III Part 1	9	29	5.8.4	Level crossing gates	<p>(i) Add the words "for DFCCIL tracks." at the end of the last sentence of the clause. (ii) Add the following sentence at the end of the Clause: "In addition, indication for the 'ON' and 'OFF' aspects of gate signals (wherever provided), occupation/ clearance of the controlling track circuits upto the point of approach warning and direction of movement of the trains on the IR track(s) shall also be displayed on the panel."</p>
425	III Part 1	9	29	New 5.8.7	Level crossing gates	<p>Add new Clause below existing Clause 5.8.6 as under: "5.8.7 Normally a single set of common lifting barriers shall be provided outside the IR and DFCCIL tracks so as to protect both the IR as well as DFCCIL tracks by one set of booms. Wherever spacing between IR track and DFCCIL track is such that a road vehicle can stand there during passage of train(s), separate set of barriers shall be provided for IR and DFCCIL tracks."</p>

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426	III Part 1	9	Annex 7-4	-	-	Add new clause 1.8 & 1.9 under Clause 1.7 added vide item No. 395 of Addm 8: "1.8 Gate signals for trains on IR tracks shall be provided and operated by IR. 1.9 Where separate set of barriers have to be provided for IR and DFCCIL tracks due to site requirements, supply and installation of Electric lifting Barrier for IR track shall be done by IR. "
427	III Part 2	6	58	6.5.1.1 2)	MSS of WDFC to be interoperable with BSC(s) of IR and of BSC being procured for EDFC	At the end of sub-clause 6.5.1.1 2) add the sentence "MSSs of WDFC shall be interoperable with BSC(s) of Indian Railways.MSSs of WDFC shall be interoperable with BSC being procured for Khurja-Bhaupur-Mugalsarai Section of Eastern Dedicated Freight Corridor (EDFC) and vice versa."
428	III Part 2	8	79	8.3.3.1	DTS telephones at Level Crossings	Replace the last sentence of the clause "Three numbers of level crossing gates are planned as per details given in volume IV Data Book." With the following: "A total of 85 numbers of level crossing gates shall be provided with DTS telephones. Details of 83 Nos. of these shall be provided by the Engineer at Preliminary Design stage. Details of the balance 2 Nos are as given in volume IV Data Book."
429	III Part 2	15	108	New sub-clause 15.4.20	Trench for telecom cables.	Add new sub-clause 15.4.20 on page 108 as under: "Outdoor Telecom cables along the tracks from station to station shall be laid in the same trench as for signaling cables. Other outdoor telecom cables which cannot be laid in these common trenches shall be laid in separate trenches. Electronic Cable markers of proven make shall be provided for outdoor cables laid in such trenches spacing of which shall be got approved by the Engineer."

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430	IV	10	187	-	List of Level Crossings	<p>1) Add the following data above the table "List of Level Crossings" on page 187 of Volume IV: "Level Crossings: A total of 85 numbers of level crossings shall be interlocked and provided with DTS telephones. 2 Nos. of these are on Link Lines. Tentative list of 372 Nos. of main Line LC Gates is given. Out of these 372 Nos., 83 Nos. shall be interlocked details of which shall be provided by the Engineer at Preliminary Design stage."</p> <p>2) On page 187 and 188 of Vol IV of Bid documents, add the words "on Link Lines" after the words "List of Level Crossings" in the Heading.</p> <p>3) After page 188, add new pages 188A to 188H containing "Tentative list of Level Crossings on Main Line" as per Attachment Addm 8-2.</p>