

Response To Pre-Bid Queries For System Tender MGS-SEBN & CPBH(Excluding NKWD-DGO Section of EDFC Bid Document No. HQ/SYS/EC/D-B/MGS-DGO & KWDN-CPBH-SEBN dated 29.12.2017)

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
1	Part 2, Section V (B), Vol. 7, PS Electrical, Clause No. 8.2 Pg No. 472/741	Factors Governing Design of OHE	It is understood that the cantilever arrangement and material will be as per existing design of IR/RDSO. It is requested to clarify the use of alternate cantilevers .	Please refer Clause 8.10 : cantilever assemblies Section 5(b), Volume 9.
2	Part 2, Section V (B), Vol. 7, PS Electrical, Clause No. 8.2 Pg No. 472/741	Factors Governing Design of OHE	As per tender conditions, it is planned to use RDSO fittings/cantilever frame. In view of the above, it is requested to delete the requirement of FEM analysis	Request not accepted. Provision of bidding document shall prevail.
3	Part 2, Section V (B), Vol. 7, PS Electrical, Clause No. 8.4.7 Pg No. 475/741	OHE structures on bridges/Viaduct/RFO Point (1)	It is requested to provide the details of bridges along with their length	The information is available in Alignment drawings attached in Part 4 in the Bid document.
4	Part 2, Section V (B), Vol. 7, PS Electrical, Clause No. 6.10.8.1 Pg No. 459/741	Bonding of all exposed metallic parts of all equipments and connecting them to the earthing is required.	Kindly provide the details of Exposed metallic parts along the corridor.	Bidders are requested to survey the section and collect the details accordingly.
5	Part 2, Section V (B), Vol. 7, PS Signaling, clause No. 7.3 and 7.10 Pg No. 233/741	Clause 7.3: The Train Management System shall, broadly comprise of, but not limited to, the following: d). Video Wall Display System at OCC for Signaling and SCADA. Clause 7.10: The RPS display screens, including display controllers, for SCADA system shall be provided by the Contractor. TMS shall interface with SCADA system to exchange any data between two systems. The contractor shall exchange and agree on the protocols and hardware/software interfaces between the systems. In case of conflict, the Engineer's decision shall be final.	Also for interface between TMS and SCADA system at OCC for any data exchange shall be over IEC 60870-5-104 protocol. Kindly confirm the same.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
6	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No.2.6.1, 3.3.1 & 7.2.11 Pg No. 437/741	Clause 2.6.1: Presently, SCADA for the section NKWD-DGO is located at OCC Mughalsarai. The same is to be upgraded/modified/integrated with the present section and is to be commissioned at OCC Allahabad.	As per our understanding new SCADA system shall be set-up at OCC Allahabad for section (MUGHALSARAI TO NEW SONNAGAR AND CHIRAILAPATHU STATION) and existing RTUs of section NKWD-DGO	Please refer Addendum no. 02 SN.12. Further, Bidder may survey the section and collect the details.

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		<p>Clause 3.3.1: Traction SCADA of NKWD-DGO to be integrated/upgraded with the present section and commissioned at OCC/ALD. Non- Traction SCADA of NKWD-DGO to be integrated/upgraded with the present section and commissioned at OCC/ALD.</p> <p>Clause 7.2.11: The SCADA arrangement for the section is to be integrated/Upgraded/modified with the existing SCADA arrangement of DGO-NKWD section and is to be commissioned at OCC Allahabad. Presently the SCADA arrangement of DGO- NKWD is at RCC/Mughalsarai and is likely to be commissioned shortly. The contractor should study the field equipment provided in DGO-NKWD section for compatibility.</p>	<p>shall be integrated with new setup at OCC Allahabad. However request you to provide thefollowing additional information.</p> <p>Details of existing SCADA system and RTUs in section NKWD-DGO.</p> <p>The protocol which shall be used for the integration of SCADA systems</p> <p>Availability of spare ports in field RTUs for new OCC (Allahabad) communication.</p>	
7	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No. 7.2.11 Pg No. 470/741	Additionally, the SCADA system shall include a data link to a maintenance management system (MMS being developed by DFCCIL). This link shall enable the SCADA System to forward fault information to the MMS from all connected equipment to identify the location and nature of faults.	Protocol to link with maintenance management system is not defined. As per our understanding data shall be interfaced with maintenance management on OPC protocol. Kindly confirm the same.	MMS will be developed by DFCCIL in future. Designated Contractor should keep provision of data link between SCADA system and MMS during design of SCADA.
8	Part 2, Section V(B), Vol. 9, PS Electrical, clause No. 13.9.2(8), Pg No. 522/741	A mimic panel shall be provided in ASM's room of stations where status of some of the functional units like HT, LT Feed, DG set & UPS status can be displayed.	For this purpose a HMI Touch panel shall be provided and shall be equipped in station RTU. Kindly confirm the same.	The requirement of mimic panel at ASM's room is for display only. Further, design should be proposed to the Engineer for approval during execution.
9	Part 2, Section V(B), Vol. 9, PS Electrical, Clause 13.9.2 (3), Pg No. 521/741	The metering shall be based on open protocol/DLMS/IEC-62056 & shall be supported with all type of communication system such as PSTN, optical fiber, Wi-max, GPRS/3G, GSM/R, etc.	<p>Metering data shall be displayed on a stand-alone system at OCC.</p> <p>However, if there is any requirement of displaying this data also in Auxiliary SCADA then it shall be done on OPC protocol. Kindly confirm the same.</p>	Being a Design build contract, the design shall be proposed by the designated Contractor and approved by the Engineer at design stage after award of contract.

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10	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No.13.10.3 Pg No. 522/741	Data logging system/ software shall enable automatic long-term storage of measured data from PV plant. It shall allow visualization, monitoring, commissioning and service of the installation. The data logger shall integrate with SCADA system. It should also be possible to retrieve the data directly from the data logger. The software for access/ visualization of data from data logger should be provided by the supplier free of cost. Necessary executable files, if any, shall be required to be given free of cost by the contractor on a CD/any other storage device.	Data logging and Event storage system for historical events analysis is an inbuilt feature of SCADA software. Therefore, request you to kindly clarify the need of integration of SCADA system with data logger.	Dedicated data logger is not required.
11	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No. 7.2.11 Pg No. 470/741	The Contractor shall study the RDSO specification no. TI/SPC/RCC/SCAD/0130 (rev.2) (Revised in July, 2016) or latest for IP based SCADA system as per IEC 60870-5-104 and propose the SCADA system for this contract covering the basic architecture to be followed and corresponding communication protocol to be Adopted.	As per our understanding SCADA system at OCC shall communicate with field RTUs over IEC 60870-5-104 protocol. Please confirm which protocol we should choose for Relays/IEDs to RTU communication (i.e. IEC 61850 or IEC 60870-5-103).	The clause is self-explanatory. The provision in the bidding document shall prevail.
12	General		For designing the SCADA system at OCC and RTU configuration effectively, we request you to provide the following information. No. of TSS and location name. No. of SS/SSP and location name. No. of S&T huts and LC gate and location name. 4. Specifications of SCADA RTU panels. 5. Specifications of SCADA IT equipments at OCC and at station/depot. 6. Traction overview drawing. 7. OCC Architecture drawing for Traction and Auxiliary SCADA.	Please refer addendum no. 02, serial no. 12. For further details bidders are requested to survey the section. For OCC architecture designated contractor will interface with contractor of CP – 104.

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13	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No. 3.3.2, Pg No. 439 of 741	Power Supply Arrangement - Durgauti RSS cum TSS	Kindly share the orientation details of 220kV Incoming T/L Tand 132kV Outgoing T/L Tower details near to Durgauti RSS cum TSS wrt TSS Layout.	Being a design built contract the layout of RSS-cum-TSS is to be prepared by the designated contractor after interfacing with PGCIL.
14	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No. 3.3.2, Pg No. 439 of 741	Power Supply Arrangement - Durgauti RSS cum TSS	Supply of Control Relay Panels for 220kV Incoming bays from PGCIL and 132kV Outgoing bays to Indian Railway is not clear. System contractor to consider space provision only or should consider the supply of above items too. Please clarify	Please refer schematic diagram of RSS cum TSS.
15	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No.7.2.3, Pg No. 464 of 741	220/132kV Power Transformer Losses	Losses for 220/132kV Power Transformer are not defined. Requested to specify the maximum permissible losses.	Please refer addendum no. 02, serial no. 10.
16	Part 2, Section V(B), Vol. 9, PS Electrical, Clause No.7.2.4, Pg No. 466 of 741	Auto Transformer Losses	There is an inconsistency between the rating of the autotransformer wherein it has been defined in 8 MVA in some places and 12 MVA in other places. Kindly clarify the rating to be considered for autotransformer along with their losses.	For rating of Autotransformer, please refer clause 7.2.4.1. For Autotransformer losses please refer addendum no. 02 Sr. No. 11.
17	Part 2, Section V(B), Vol. 9, PS Electrical, Annex-XIII, 16.3.1 (iv), Annex-XIV, 15.3.1 (4), Pg No. 632 of 741 & 670 of 741	Type Test of Transformer: short Circuit Test	Short Circuit test of transformer is mentioned under Type Test whereas as per IEC short circuit is a special test. In view of the above, it is requested to delete the requirement of short circuit test from type test requirement	Request not accepted.
18	Part 2, Section V(B), Vol. 9, PS Electrical, Interface Matrix	Interface Matrix with PGCIL for Incoming supply and scope clarity	Kindly provide the detailed interface matrix PGCIL for Incoming supply and scope clarity.	Please refer addendum no. 02, serial no. 13.
19	Part 2, Section V(B), Vol. 9, PS Electrical, General		Kindly provide details of the location (Chainage Details) of TSS, SP & SSP in the both side adjacent sections and DGO-NKWD section.	Please refer addendum no. 02, serial no. 9.
20	Part 2, Section V(B), Vol. 9, PS Electrical, General		Kindly provide Traction simulation done by the DGO-NKWD section.	Request not accepted.

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21	Part 2, Section V(B), Volume 7, PS signaling, Clause No. 6.1.3(4) Pg No. 207/741	The Alignment Plans and Yard plans have been provided under Part 4 – Reference documents. These shall be reviewed and revalidated by the contractor from Signaling & Interlocking point of view.	Request to clarify who will carry the alteration in the IR yards.	All alteration work in IR jurisdiction shall be executed by IR.						
22	Page 53, Volume 1, para2.2, Table 2.2	<table border="1"> <thead> <tr> <th>Station</th> <th>Type</th> <th>Approx. Chainage</th> </tr> </thead> <tbody> <tr> <td>New Chirailapathu</td> <td>Junction Station</td> <td>543/11-13</td> </tr> </tbody> </table>	Station	Type	Approx. Chainage	New Chirailapathu	Junction Station	543/11-13	Only IR Chainage is provided. Request you to also provide DFCC chainage details	Refer Part-4 Reference Documents.
Station	Type	Approx. Chainage								
New Chirailapathu	Junction Station	543/11-13								
23	Part 2, Section V(B), Volume 7, PS signaling, Clause No. 6.1.4(1)(b) Pg No. 208/741	The Control terminal provided with the Station Master at the Station shall be used to control the Station yard and block section (part or complete), under control of the said Station Master.	We understand that in the block section, Auto signaling is to be provided, so no control is required for auto signaling. Please confirm our understanding	Provisions of Bidding document shall prevail.						
24	DRG. No. DY.CPM/DFC/MGS/01 SHEET 1	Refer to Engineering Scale Plan of Ganjkhwaja	As per Ganjkhwaja key plan, two lines of DFCC crossing south to north after Ganjkhwaja yard and one loop line from Ganjkhwaja yard running parallel to the DFCC mainline and joining the mainline through two crossovers. However, these crossovers are not seen in the ESP provided. Request you to provide revised ESP that includes crossovers.	Refer Part-4 reference documents.						
25	General		Braking distance is required to design the signaling plan. Request you to kindly normal braking distance of the train.	Minimum Normal braking distance is 2573 Mtrs.						
26	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 4.3.2 Pg No. 333/741	Unless otherwise specified, all telecommunication equipment shall be designed for operation continuously in temperatures of -5 °C to +55 °C.	Normally, telecommunication network works within the temperature range of -5 °C to +45°C. So, for all telecommunication network, request to consider the temperature range upto 45 °C instead of 55 °C.	Provisions of Bidding document shall prevail.						
27	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.1.1 Pg No. 334/741	The OFC System shall be a highly reliable system since it shall be the primary means of communications between OCC,	Please suggest the number of SDH Nodes to be considered in the BOM. Also indicate the number of SDH nodes i.e. STM-16 to be considered in First network and STM-4 to be considered in Second network.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.						

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28	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.1.3 Pg No. 334/741	The OFC System shall be capable to transport all of the user communication requirements. The OFC System shall provide sufficient bandwidth to cater for the communication requirements of various systems under this Contract as well as outside this Contract and shall provide an additional spare bandwidth of at least 50% of the total used bandwidth for future system expansion.	As per the clause, OFC requires 50% Spare bandwidth. We are proposing STM-16 for First network and STM-4 for second network. Kindly clarify the Bandwidth requirement in terms of STM-16 / STM-4 or in terms of number of SDH Ports.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
29	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.1.1 (6) Pg No. 343/741	Optical link budget calculations for all the transmission links;	Distances are required to calculate the link engineering. In view of this, request to indicate the distance between the stations i.e for the first network (STM-16) and for the second network (STM-4).	Refer Part 4-Reference documents.
30	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.1.1 (10) Pg No. 343/741	The details of the synchronisation network design and a synchronisation plan which describes the fall back arrangement, failure and restore criteria	Request you to please provide the indicative network diagram with provision of First network and second Network.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
31	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.3.7.6 Pg No. 339/741	The Flexible Access Multiplex Equipment shall be provided with 1+1 Redundancy for all Channel levels (Voice, Data, etc). Further 1+1 Protection for Control & Power Supply Modules/Cards shall be provided in Flexible Access Multiplex Equipment.	1+1 redundancy for voice and data is not feasible in case of Flexible Access Multiplexer. Request you to Kindly amend or delete this clause from tender.	Provisions of Bidding Document are sufficiently clear. Please refer Clause 5.3.7.6 Part 2, Section V(B), Volume 8, PS Telecommunication.
32	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.3.3.7 Pg No. 345/741	Flexible access multiplexer equipment shall be provided with 1+1 protection for all channel levels		
33	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.3.4.5 Pg No. 346/741	Nx64 kbps synchronous data interfaces complying with ITU-T Rec. V.11 and V.35 interface; etc....	V.35 etc interfaces is not required in DFCCIL requirement. Kindly amend or delete this clause from tender.	Only applicable standards shall be used for designing the Telecom System.
34		Each portable service terminal shall be powered	How many Laptops are required in each sub-system. Can we provide the same	Provisions of Bidding document shall prevail. Please refer Clause 7.5.3 Part

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			laptops loaded with different sub-system management software.	2, Section V(B), Volume 8, PS Telecommunication.
35		Redundancy of NMS	Redundancy of NMS for each sub-system is required. But there is no backup OCC. Can we proposed single NMS for each sub-system	Provisions of Bidding document shall prevail.
36	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 6.1.7 Pg No. 348/741	At Junction Stations and Crossing Stations including stations of DGON-KWDN section, Wi-Fi facility, compliant with IEEE 802.11g standards shall be provided for WAN connectivity to users (which also include drivers of passing trains) via Wireless Enabled Devices and Equipment. A minimum of 10 simultaneous users may use the Wi-Fi Connectivity at Stations.	Kindly provide the inputs wether you need Licensed band and Unlicensed band for wifi.	Unlicensed band shall be used for wifi facility.
37	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 6.1.7 Pg No. 348/741	This Wi-Fi Facility shall as a minimum cover Station Buildings and EDFC Tracks up to 500 meters in both directions.	Kindly provide the central point on which coverage of 500 meters is required. Please provide the total distance for wi-fi coverage on platform, and both sides of platform also.	The central point is center of station building. Provisions of Bidding Document are sufficiently clear.
38	Part 2, Section V(B), Volume 8, PS Telecommunication, Chapter 8 Pg No. 367/741	VIDEO SURVEILLANCE SYSTEM REQUIREMENTS	What would be the backbone network for CCTV System.	It should be provided using Data networking System.
39	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 9.1.3 Pg No. 377/741	The synchronized time information shall be provided to other interfacing systems via the OFC System. Synchronization of the time information of other systems shall be achieved by means of the Network Time Protocol (NTP)	Kindly clarify how synchronization of OFC equipment is achieved from NTP based clock.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
40	Part 2, Section V(B), Volume 8, PS Telecommunication, Chapter – 10 Pg No. 381/741	VHF Communication system	Kindly provide the location of installation of tower.	Provisions of Bidding Document are sufficiently clear. Please refer clause 10.1.1 Part 2, Section V(B), Volume 8, PS Telecommunication.
41	Part 2, Section V(B), Volume 8, PS Telecommunication,	VHF Communication system	Kindly provide the technical spcifications i.e. safety factor, overturning factor etc for VHF Towers.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the

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	Chapter-10 Page no 381 of 741			Engineer at design stage after award of contract.
42	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.3.5.2 Pg No. 345/741	The NMS shall be equipped with a proven real-time, multi-tasking operating system to support centralised network management of the OFC equipment	Network management System for the SDH and PDH are different with Different hardware and different software.	Network management System for the SDH and PDH can be on same hardware or on different hardware.
43	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 11.3.13 (11) Pg No. 387/741	Summary Alarm	Summary alarm is not feasible. Kindly amend the clause.	Provisions of Bidding document shall prevail.
44	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 4.3.2 Pg No. 333/741	Unless otherwise specified, all telecommunication equipment shall be designed for operation continuously in temperatures of -5oC to +55oC.	Normally, elecommunication network works within the temprature range of - 5oC to +45oC. So, for all telecommunication network, request to consider the temprature range upto 45 degree C instead of 55 degree C.	Provisions of Bidding document shall prevail.
45	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 8.1.1 Pg No. 367/741	The Video Surveillance Cameras shall be provided for effective real time video surveillance of TSS/RSS at New Durgauti & TSS at New Karwandiya from OCC Allahabad.	Kindly clarify that CCTV Network would only be required at TSS at New Durgauti and TSS at New Karwandiya only.	Bidder's understanding is correct.
46	Part 2, Section V(B), Volume 7, PS Signalling. Clause No. 7.1 (2) Pg No. 224/741	The system shall collect Signalling information from various Station and Auto Location Huts interlocking system on a real time basis. It shall also collect the train identification information from either Time Table or normally keyed in by the appropriate Controller/ Station Master. The system contractor shall also collect all required Signalling information from various Stations/EI locations, Auto Location huts, LC Gates and other interlocking system for New Durgauti to New Karwandiya section.	It is understood that data to be collected from Stations and interlocking stations in New Durgauti to New Karwandiya section. The FIUs / IFM from EI to be compatible with our data format or we need to plan for additional IFM to convert data to our required format and also the provision of connectivity from all the locations (Junction / Cross stations and LC and Auto locations) to our Servers at OCC. Existing contractor to provide the information related to that section.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
47	Part 2, Section V(B), Volume 7, PS Signalling. Clause No. 7.1 (2)	The system shall have all the capability built into it to be configured at a later stage for remote control of Signalling System for use as Centralized Traffic	It is understood that TMS interface with CTC shall be implementable with minimum configuration change without additional Hardware. Request to	Provisions of Bid Document are sufficiently clear. It is also clarified that Bidder's understanding is correct.

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	Pg No. 224/741	Control (CTC) System from OCC with minimum configuration changes and no hardware add-on. Alternatively it shall be possible to control the TMS provided in this contract from CTC, provided in OCC by other contractor. The Contractor shall seek clarifications in this regard from the Engineer in the early stages of the project. The decision of the Engineer in this regard shall be final.	confirm.	
48	Part 2, Section V(B), Volume 7, PS Signalling. Clause No. 7.6 (2)(f)(ii) Pg No. 243/741	Processor – Minimum 64 Bit, Multi Core Multi processor.	Request to confirm the number of cores and number of processors.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
49	Part 2, Section V(B), Volume 7, PS Signalling. Clause 7.6 (4)(a)(ii) Pg No. 244/741,	Processor: 64 Bit Multi Core Multi Processor.	Request to confirm the number of cores and number of processors.	
50	G.C.C. - FIDIC Yellow Book 1999 Clause 2.5 Employers' claim	Para (2) The notice shall be given as soon as practicable after the Employer became aware of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.	We request you to Insert in paragraph 2, behind the words "as soon as practicable": and not later than 28 days	Request not accepted.
51	G.C.C. - FIDIC Yellow Book 1999 Clause 4.1 Contractor's General Obligations	The Contractor shall design, execute and complete the Works in accordance with the Contract, and shall remedy any defects in the Works. When completed, the Works shall be fit for the purposes for which the Works are intended as defined in the Contract.	The phrase "Fit for purpose" is open to interpretation. Therefore, request you to elaborate.	Request not accepted.
52	Part 3, Sec VII, Particular Conditions Pg No. 706/741 Sub-clause 13.3 Variation Procedure	Add the following below the last paragraph: For varied works of items due to variation as per Sub-Clause 1.1.6.9 determination of adjustment to the	Request you to extend the applicability of price variation for the items and quantities under variation, if any.	Request not accepted. The Provisions of the Bidding Document shall prevail.

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		<p>Contract Price shall be based on the following:</p> <p>a. Inputs of man-days, machine hours and quantities of materials;</p> <p>b. (i) Prevailing market rates for Materials, hiring of equipment; (ii) Rates being paid by the Contractor for unskilled, semi-skilled and skilled worker as per the records maintained by the Contractor in accordance with the Laws;</p> <p>c. Contractor's overheads and profit at the rate of 15 (fifteen) per cent of the cost arrived at on the basis of (a) and (b) above and;</p> <p>d. Applicable taxes.</p> <p>No price adjustment shall apply. The approval for Variation shall state the period of extension of time, if any, allowed for the Variation. If no extension of time is allowed, the same shall be stated.</p>		
53	G.C.C. - FIDIC Yellow Book 1999 Clause 2.5 Employers' claim	Para (2) The notice shall be given as soon as practicable after the Employer became aware of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.	We request you to Insert in paragraph 2, behind the words "as soon as practicable": and not later than 28 days	Request not accepted.
54	Part 3, Sec VII, Particular Conditions Sub Clause no 1.7 Pg No. 698/741	Assignment	Kindly retain sub clause 1.7 as given in FIDIC Yellow Book	Request not accepted. The Provisions of the Bidding Document shall prevail.
55	Part 3, Sec VII, Particular Conditions Sub Clause no 1.9/5.1 Pg No. 698/741	Errors in Employer's requirements- to be understood with reference to "purpose, scope, design and/or other technical criteria for the works"	Please define the "purpose" of the works with reference to the use of the term "purpose, scope, design and/or other technical criteria for the works"	Request not accepted. The Provisions of the Bidding Document shall prevail.
56	Part 3, Sec VII, Particular Conditions Sub Clause no 4.7 Pg No. 702/741	Setting out	Kindly retain Sub-Clause 4.7 as given in FIDIC Yellow book	Request not accepted. The Provisions of the Bidding Document shall prevail.

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57	Part 3, Sec VII, Particular Conditions Sub Clause no 4.10 Pg No. 702/741	Site Data	Kindly retain Sub-Clause 4.10 as given in FIDIC Yellow book	Request not accepted. The Provisions of the Bidding Document shall prevail.
58	Part 3, Sec VII, Particular Conditions Sub Clause no 4.12 Pg No. 702/741	<p>Unforeseeable Physical Conditions: In this Sub-Clause, "physical conditions" means man-made or natural physical conditions including sub-surface and hydrological conditions which the Contractor encounters at site during the execution of the Works.</p> <p>Except as otherwise stated in the Contract:</p> <p>(a) the Contractor accepts total responsibility for having foreseen all difficulties and physical conditions; and</p> <p>(b) the Contract Price shall not be adjusted to take account of any unforeseen physical conditions</p>	Kindly retain Sub-Clause 4.12 as given in FIDIC Yellow book	Request not accepted. The Provisions of the Bidding Document shall prevail.
59	Part 3, Sec VII, Particular Conditions Sub Clause no 5.1 Pg No. 703/741	General Design Obligation	<p>Please define purpose.</p> <p>We request modification to following clause:</p> <p>- Para 2, 2nd sentence : " The Contractor undertakes that the designers shall be available to attend discussions with the Engineer at all reasonable times, until the expiry date of the relevant Defects Notification Period."- Siemens design personnel will be available for the meetings but not necessarily the same personnel</p> <p>We request to delete the following requirements / clauses :</p> <p>- Para 4, 2nd sentence : "If and to the extent that (taking account of cost and time) an experienced contractor exercising due care would have discovered the error, fault or other</p>	Request not accepted. The Provisions of the Bidding Document shall prevail.

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			defect when examining the Site and the Employer's Requirements before submitting the Tender, the Time for Completion shall not be extended and the Contract Price shall not be adjusted.	
60	Part 3, Sec VII, Particular Conditions Sub Clause no 8.8 Pg No. 705/741	<u>Suspension of works</u>	Please delete the last paragraph of PC 8.8	Request not accepted. The Provisions of the Bidding Document shall prevail.
61	Part 3, Sec VII, Particular Conditions Sub Clause no 16.2 Pg No. 714/741	<u>Termination by the contractor</u>	Kindly retain Sub-Clause 16.2 as given in FIDIC Yellow book	Request not accepted. The Provisions of the Bidding Document shall prevail.
62	Part 3, Sec VII, Particular Conditions Sub Clause no 17.3/18.2 Pg No. 714/741	<u>Employer's risks/Insurance of works and Contractor's equipment</u>	Kindly retain Sub Clause 17.3(h), 18.2 sub-para 4(d) as given in FIDIC Yellow Book	Request not accepted. The Provisions of the Bidding Document shall prevail.
63	G.C.C. - FIDIC Yellow Book 1999, Clause no 1.10 Employer's Use of Contractor's Documents	Employer's Use of Contractor's Documents	We request to delete sub-paragraph (b) and substitute: b) entitle the Employer's Personnel in proper possession of the relevant part of the Works to copy, use the Contractor's Documents for the purposes of completing, operating, maintaining the Works	Request not accepted. The Provisions of the Bidding Document shall prevail.
64	G.C.C. - FIDIC Yellow Book 1999, Clause no 1.12 Confidential details	Confidential details : The Contractor shall disclose all such confidential and other information as the Engineer may reasonably require in order to verify the Contractor's compliance with the Contract.	Please confirm the nature of the confidential information that may be required.	This would include any information which the Engineer may reasonably require in order to ensure the Compliance of the Contractor with the provisions of the Contract.
65	G.C.C. - FIDIC Yellow Book, Clause no 1.13 Compliance with Law	<u>Compliance with Law</u> : (b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licences and approvals, as required by the Laws in relation to the design, execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Employer harmless against and from the consequences of any failure to do	We request to Insert at the end of Sub-Clause 1.13: However, the Contractor shall submit, in good time, the details of Goods to the Employer, who shall then promptly obtain all import permits or licences required for these Goods.	Request not accepted. The Provisions of the Bidding Document shall prevail

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
		so.		
66	G.C.C. - FIDIC Yellow Book 1999, Clause no 2.2 Permits, Licences or Approvals	<u>Permits, Licences or Approvals</u>	The Contractor shall be responsible to get only those Permits, Approvals or License which are required in the Contractor's name for the performance of this Contract. Please confirm. Further, we request DFCCIL to issue the necessary Road Permit/Octroi Exemption Certificate, if applicabe for transporting the project related material / equipments in the respective states	Request not accepted. The Provisions of the Bidding Document shall prevail.
67	G.C.C. - FIDIC Yellow Book 1999, Clause no 2.5 Employers' Claim	<u>Employers' claim</u> <u>Para (2)</u> The notice shall be given as soon as practicable after the Employer became aware of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.	We request you to Insert in paragraph 2, behind the words "as soon as practicable": ,and not later than 28 days	Request not accepted. The Provisions of the Bidding Document shall prevail.
68	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.1 Contractor's General Obligations	<u>Contractor's General Obligations:</u> The Contractor shall design, execute and complete the Works in accordance with the Contract, and shall remedy any defects in the Works. When completed, the Works shall be fit for the purposes for which the Works are intended as defined in the Contract.	We request to Delete paragraph 1, 2nd sentence.	Request not accepted. The Provisions of the Bidding Document shall prevail.
69	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.1 Contractor's General	Contractor's General Obligations	We request to delete the following words in paragraph 3 of Sub-Clause 4.1. ...(although not mentioned in the Contract).	Request not accepted. The Provisions of the Bidding Document shall prevail.
70	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.3 Contractor's Representative	Contractor's Representative	We request to delete following two paragraphs : Unless the Contractor's Representative is named in the Contract, the Contractor shall, prior to the Commencement Date, submit to the Engineer for consent the name and particulars of the person the	Request not accepted. The Provisions of the Bidding Document shall prevail.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
			<p>Contractor proposes to appoint as Contractor's Representative. If consent is withheld or subsequently revoked, or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of another suitable person for such appointment.</p> <p>The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint a replacement.</p>	
71	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.5 Nominated Subcontractors	Nominated Subcontractors	We request to delete Sub-Clause 4.5.	Request not accepted. The Provisions of the Bidding Document shall prevail.
72	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.6 Co-operation	Co-operation	<p>We request to delete Sub-Clause 4.6 and substitute:</p> <p>The Contractor shall, in accordance with the Engineer's instructions, afford to other contractors engaged by the Employer to work on the Site and persons lawfully upon the Site all reasonable opportunities for carrying out their work provided that the same shall not obstruct or disturb the progress of the Works and, when leaving his area of work, clean-up such part of the Site. The Contractor shall also afford such opportunities to the employees of the Employer.</p> <p>If the Contractor, on the written request of the Engineer, makes available any Contractor's Equipment or provides any other service, the Employer shall pay the Contractor accordingly. The amount to be paid shall be certified by the Engineer and added to the Contract</p>	Request not accepted. The Provisions of the Bidding Document shall prevail.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
			Price.	
73	G.C C FIDIC Yellow Book 1999, Clause no 4.13 Rights of way and facilities	Rights of way and facilities	Kindly delete this clause.	Request not accepted. The Provisions of the Bidding Document shall prevail.
74	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.15 Access Route	Access Route	Delete paragraph 1, 1st sentence. Delete paragraph 2, including sub-paragraphs (a) to (e), and substitute: However, if the Contractor encounters non-suitability or non-availability, for the use required by the Contractor, of access routes, gives a notice to the Engineer as soon as practicable describing the relevant circumstances, and suffers delay and/or incurs Cost due to these circumstances, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to: (a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and (b) payment of any such Cost, which shall be included in the Contract Price.	Request not accepted. The Provisions of the Bidding Document shall prevail.
75	G.C.C. - FIDIC Yellow Book 1999, Clause no 4.19 Electricity, Water and Gas	Electricity, Water and Gas	We request to delete paragraphs 1 and 2 and substitute: The Employer shall be responsible for the provision of all power, water and other ser-vices the Contractor may reasonably require. The Contractor shall be entitled to use for the purposes of the Works and for the accommodation of the Contractor's and his Subcontractor's Personnel such supplies of electricity, water, gas and other services, the details and prices of which are given in the Employer's Requirements.	Request not accepted. The Provisions of the Bidding Document shall prevail.
76	G.C.C. - FIDIC Yellow Book 1999,	Security of the Site (a) the Contractor shall be responsible	We request you in sub-paragraph (a), delete the word "Contractor" and	Request not accepted. The Provisions of the Bidding Document shall prevail.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
	Clause no 4.22 Security of the Site	for keeping unauthorised persons off the Site, and	substitute with "Employer"	
77	G.C.C. - FIDIC Yellow Book 1999, Clause no 11 1.1.3.7 Defects Liability	<u>Defects Liability</u>	We understand that the the Defects Liability period and the Defects Notification period as mentioned in cl. 1.1.3.7 (pg. 4 of FIDIC Yellow Book) are the same. Please confirm.	Yes, it is confirmed.
78	G.C.C. - FIDIC Yellow Book 1999, Clause no 15.2 Termination by employer	Termination by employer	We request, at the end of paragraph 2 ("... may by notice terminate the Contract immediately."), add: In any case, and notwithstanding the above, Employer's right to terminate the Contract hereunder shall be subject to the express proviso that the Employer cannot reasonably be expected to remain bound by the Contract. Delete paragraph 3 ("... shall not prejudice any other rights ...") and substitute: The Employer's election to terminate the Contract shall be in lieu of and to the exclusion of any rights of the Employer, under the Contract or otherwise, other than provided in Sub-Clause 15.4 [Payment after Termination].	Request not accepted. The Provisions of the Bidding Document shall prevail.
79	G.C.C. - FIDIC Yellow Book 1999, Clause no 15.5 Employer's Entitlement to Termination	Employer's Entitlement to Termination	Insert at the end of Sub-Clause 15.5: The Employer shall also pay to the Contractor the amount of any loss of profit or other loss or damage resulting from this termination.	Request not accepted. The Provisions of the Bidding Document shall prevail.
80	G.C.C FIDIC Yellow Book 1999, Clause no 17.6 Limitation of Liability	Limitation of Liability	The clause provides for liability being capped to "Accepted" contract value. Does this mean total contract value, please clarify	The total liabilities of the Contractor shall not exceed the Accepted Contract Amount as indicated in the Contract.
81	ITB 19.1.1	Tender Box for submission of Bid shall remain open: From 10:00 Hrs to 17:00 Hrs on all working days from 29.01.2018 to	Considering voluminous work involved in preparation of the tender it is requested to extend the date of submission of by 4 weeks from 31 st Jan	Please refer addendum no. 1 dated 19.01.2018

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
		<p>31.01.2018 upto 15:00 Hrs at the address given below: Office of Group General Manager/S&T-III/EC, Dedicated Freight Corridor Corporation of India Limited Room No. 436 (C), 4th Floor, Pragati Maidan Metro Station Building Complex, New Delhi - 110001, India</p>	2018.	
82	Part 3, Sec VII, Particular Conditions Sub Clause no 2.1 (b) Right to access to site Pg No. 698/741	Right of access to site	Kindly retain the sub-clause (b) in para 3 of 2.1 as per FIDIC Yellow Book	Request not accepted. The Provisions of the Bidding Document shall prevail.
83	Part 2, Section V(B), Vol. 9, PS Electrical, Clause 2.6.1, clause 3.3.1 and clause 7.2.11	<p>Clause 2.6.1: Presently, SCADA for the section NKWD-DGO is located at OCC Mughalsarai. The same is to be upgraded/modified/integrated with the present section and is to be commissioned at OCC Allahabad.</p> <p>Clause 3.3.1: . Traction SCADA of NKWD-DGO to be integrated/upgraded with the present section and commissioned at OCC/ALD. . Non- Traction SCADA of NKWD-DGO to be integrated/upgraded with the present section and commissioned at OCC/ALD.</p> <p>Clause 7.2.11: The SCADA arrangement for the section is to be integrated/Upgraded/modified with the existing SCADA arrangement of DGO-NKWD section and is to be commissioned at OCC Allahabad. Presently the SCADA arrangement of DGO- NKWD is at RCC/Mughalsarai and is likely to be commissioned shortly. The contractor should study the field equipment provided in DGO-NKWD section for compatibility.</p>	<p>As per our understanding new SCADA system shall be set-up at OCC Allahabad for section (MUGHALSARAI TO NEW SONNAGAR AND CHIRAILAPATHU STATION) and existing RTUs of section NKWD-DGO shall be integrated with new setup at OCC Allahabad. In this regards kindly provide us the following information.</p> <p>Number of existing RTUs of Traction SCADA (at TSS/SSP/SP/SS) for section NKWD-DGO.</p> <p>Number of existing RTUs of Non-Traction SCADA (at STN/IMD/IMSD/LC Gate/S&T Huts) for section NKWD-DGO.</p> <p>Traction and Auxiliary overview drawings for the section NKWD-DGO.</p> <p>Number of signals/signal list of each Traction location and Auxiliary location of the section NKWD-DGO to be integrated with the new SCADA setup at OCC Allahabad.</p> <p>Details of available telecom channels of the existing section NKWD-DGO for SCADA integration at OCC Allahabad.</p>	Please refer addendum no. 02 S.N 12. Further bidder may survey the section and collect the details.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
84	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 8.2.1 (1) Pg No. 367/741	IP Fixed Camera....	Specifications are only provided for IP Fixed Camera. Request you to kindly add PTZ camera in these specifications, as it is much better mode of surveillance.	Provisions of Bidding document shall prevail.
85	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 11.3.13 (11) Pg No. 387/741	Summary Alarm	There are certain subsystems installed in the Rack. Summary of all different sub-system is not feasible in single panel. Different alarms are provided by different sub-system. Kindly amend the clause accordingly.	Please refer addendum no. 02, serial no. 5.
86	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.3.7.6 Pg No. 339/741	The Flexible Access Multiplex Equipment shall be provided with 1+1 Redundancy for all Channel levels (Voice, Data, etc). Further redundancy of Control & Power Supply Modules/Cards shall also be provided to ensure that a single failure shall not affect the availability of the Flexible access multiplex equipment.	Please confirm that "1+1 protection for all channel level (Voice Data, etc.) with Automatic Switchover" corresponds to SNCP equivalent functionality at the E1 backhaul link.	Provisions of Bidding Document are sufficiently clear.
87	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.3.3.2 Pg No. 345/741	Flexible Access Multiplex Equipment shall support Primary Multiplexing, Digital Branching and Digital Cross Connect. The granularity of Digital Cross Connect shall be N X 8 Kbits/Second.	Cross Connect granularity of Nx64 kbps is standard cross connect granularity available in market with most of vendors, since the nx8 is not required from design perspective. So request to remove this from requirement or make it optional.	Provisions of Bidding document shall prevail.
88	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 5.5.3.3.6 Pg No. 345/741	Adequate numbers of Primary Multiplexers shall be provided so that there is no loss of Communication at any point of time.	Please define 'adequate number of Primary Multiplexers' and 'no loss of Communication at any point of time'.	Being a Design build contract, the design shall be proposed by the Contractor and approved by the Engineer at design stage after award of contract.
89	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 6.3.1 Pg No. 349/741	WAN shall connect OCC, DFC stations and IMD in Ring Topology using Optic Fibre Cable laid along Up and Down Track of DFCCIL. Further WAN shall connect TSS/RSS with New Durgauti Station in Redundant Linear Topology using Optical Fibre Cable. WAN shall be created using Layer-3 Access Switch. As such Layer-3 Access Switch should be equipped with 4 Nos. 10 GigE Fibre Ports for backbone	Clause mentions to connect TSS/RSS with New Durgauti Station only. As per clause 8.1.1, there are two TSS locations. Please clarify if both TSS will be connected to New Durgauti station in asked linear topology.	Please refer addendum no. 02, serial no. 1.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
		interconnections.		
90	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.3.8 (3) Pg No. 359/741	Direct Line Consoles shall be provided for Station Controllers in SCR of DFC Stations and shall have a minimum direct line capacity of 100 lines and shall be capable of interfacing with required direct line extensions	In Annexure-2 of this PS and In other EDFC phases, 30 line DLT console is required for Station Controllers in SCR. Please reconfirm that 100 line is required for this project.	Please refer addendum no. 02, serial no. 3.
91	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.3.2 Pg No. 359/741	System contractor shall either provide a new Main PBX at OCC or integrate the satellite PBX system located at DFC stations in the this section including DGON-KWDN section or shall upgrade/augment/reconfigure the main PBX system provided at temporary OCC Mughalsarai and integrate the satellite PBX system of this section including DGON-KWDN section and shift it to OCC at Allahabad. Contractor may also upgrade the PBX system provided under the Contract package CP-104/CP-203 and integrate PBX system of this section including DGON-KWDN section.	One main PBX provided/or being provided At OCC Allahabad by CP104. Another main PBX provided at temporary OCC Mughalsarai and required to shift it to OCC at Allahabad for this project. Instead of putting two main PBX, it is recommended to maintain one integrated Main PBX at OCC Allahabad. Please confirm.	Provisions of Bidding Document are sufficiently clear.
92	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.3.5.2 Pg No. 356/741	Administrative Telephones to be provided shall be Digital Telephones at OCC. All the remaining Telephones shall be Analogue Telephones.	Requirements of Telephone Sets at OCC is not given in Annexure-1. Please confirm that Digital Phones are not required.	Please refer addendum no. 02, serial no. 2.
93	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.3.8 (1) Pg No. 356/741	Direct Line Consoles provided under DGON-KWDN system contract for Chief Controller, Deputy Chief Controller, Assistant Controller, Traffic Controller Traction Power Controller, Signalling Fault Management Controller and Track Controller, having a minimum direct line capacity of 100 lines, shall be upgraded/reconfigured to meet the communication requirement mentioned in this Particular Specification, as these controllers are common for both sections. Direct Line Consoles are to	AT OCC Allahabad, DLT Console for Chief Controller, Deputy Chief Controller, Assistant Controller, Traffic Controller Traction Power Controller, Signalling Fault Management Controller and Track Controller are being provided by CP104, CP203. Kindly confirm that in said consoles is required addition to DLT console provided by CP104.	DLT consoles are to be provided in addition to DLT consoles provided by CP-104 or any other contract package of EDFC.

S.No.	Reference to Bid Document	Available Terms	Clarification Sought by Bidder	DFCC's Response
		be provided as per Annexure 2.		
94	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.4.2.2 Pg No. 362/741	The Contractor shall furnish for the following sub-systems/equipment, the reliability figures, MTBF Hours from the OEMs (11) Control Communication Equipment	Since the equipment is required as per RDSO and there is no MTBF value. Kindly remove 7.4.2.2 (11).	Provisions of Bidding document shall prevail
95	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 7.4.2.2 Pg No. 362/741	The Contractor shall furnish for the following sub-systems/equipment, the reliability figures, MTBF Hours from the OEMs (12) Emergency Control Communication Equipment	Since the equipment is required as per RDSO and there is no MTBF value. Kindly remove 7.4.2.2 (12).	Provisions of Bidding document shall prevail.
96	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 9.1.4 Pg No. 377/741	Whenever existing equipment of Master Clock System being provided under Contract Packages CP-104 is upgraded/augmented/reconfigured to meet the requirement of this Particular Specifications, the available provision for redundancy in existing equipment shall not be compromised and subsequent to upgradation/augmentation/reconfiguration they shall meet the Technical Requirement and Performance Requirement as stipulated in this Particular Specifications.	Our understanding is: If feasible, Contractor may upgrade/augment/reconfigure the Master Clock system provided under Contract Packages CP-104 to meet the requirement of this Particular Specifications.	Bidder's understanding is correct. Due to any upgradation, the available provision for redundancy in existing equipment shall not be compromised.
97	Part 2, Section V(B), Volume 8, PS Telecommunication, Clause No: 9.2 Pg No. 377/741	The scope of supply shall include, but not be limited to, the following: (1) A Master Clock System; (2) GPS Receiver and Antenna;	In continuation with above , the Scope of supply will be read as: (1) GPS receiver and antenna consisting of GPS receiver & antenna in OCC, if modifications to CP-104 Master clock system will not be possible (2) Master clock system modifications to CP-104 will not be possible.	Provisions of Bidding document shall prevail.

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