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	GENERAL QUERIES:					
1	a) Tender Information : PBG	3	Within 5 days from the date of issue of LOA, successful bidder must deposit Performance Bank Guarantee (PBG) fees @ 10% of the total contract value to RECPDCL with validity till completion of assigned work as per requirement of RECPDCL	1. We understand that PBG of 3% of total contract price has to be submitted instead of 10% which is in line with order no. No. F.9/4/2020-PPD dated 12.11.2020 issued by GOI, Ministry of Finance, Department of Expenditure, Procurement Policy Division . Request to confirm. 2. We understand that bidder has to be submit performance security with fourteen days from the date of notification of Letter of Award (LOA) and not 5 days. Please confirm our understanding.	1. A per SCC 3% performance security of total contract value is being asked in the form of bank guarantee as per Govt of India order no. F.9/4/2020-PPD dtd: 30th Dec 2021. 2. Submission of necessary Bank Guarantee for the 110% of Initial Advance which will be 10% of total contract value. Both these points are independent of each other.	
	b. Contents of Bidding Document : 42. 1 Performance Security c) ITB 42.1	30,37	Within fourteen (14) days of the receipt of notification of award from the Utility, the successful Bidder shall furnish the Performance Security in accordance with the GCC, using for that purpose the Performance Security Form as provided in the documents.			
	Section VII-SCC, GCC clause no. 13.3	456	The Supplier shall provide Performance Security of three (03) percent of the total Contract Price.	We understand that performance security amount is limited 3% of total contract value and not 10% of contract value if elsewhere mentioned under RFP		
2	Tender Information:	3	EMD : EMD : INR 20,50,000/-	We refer to order no. F.9/4/2020-PPD dated 12.11.2020 issued by GOI, Ministry of Finance, Department of Expenditure, Procurement Policy Division . The major content of this order is reproduced below for immediate reference. '- No provisions regarding Bid Security should be kept in the Bid Documents in future and only provision for Bid Security Declaration should be kept in the Bid Documents. - The above instructions will be applicable for all the tenders issued till 31.12.2021. We understand that this order is still valid beyond 31.12.2021 and bidder is exempted to submit EMD BG and only " Bid Security Declaration" is required to submitted along with the bid. We request you to clarify/confirm.	1.)The said instructions will be applicable for all the tenders issued till 31.12.2021 . EMD Will be taken.	
3	GCC 27.3	456	The period of validity of the warranty shall be 12 (Twelve) months from the date of commissioning.	1. Please clarify the period of warranty i.e. it is 12 months or 7 years. 2. We understand that warranty requirement of 12 months/ 7 years is only for SCADA/DMS portion (i.e. H/W, SW and OS) and not for sub-station equipment like RMU, Auto-reclosure, Sectionalizers, FPI, Numerical relays etc, Please clarify and confirm. 3. Since RTDAS is not under scope of supply therefore Warranty and FMS for RTDAS system is not covered under Warranty and FMS services. Please confirm our understanding.	1) The period of validity of the warranty shall be 7 Years from the Site Acceptance Test (SAT). 2) The period of validity of FMS shall be 7 years from the date of SAT, same will be revised through corrigendum. 3) RMU, Auto-reclosure, Sectionalizers, Numerical relays will be part of another project ie System Strengthening however integration shall be in scope of ADMS SIA. same will be amended through corrigendum.	Point Number -2 (Page Number 7. Point 22) Point Number -3 (Page Number 7. Point 23)
	Warranty , clause no. 1.3.11	103	This would include seven years warranty for the related hardware & software supplied under the SCADA/DMS project after the Site acceptance test (S.A.T), operational acceptance of the SCADA/DMS System. The 7 year warranty shall include comprehensive OEM on-site warranty for all components (H/W and Software including OS) supplied including reloading and reconfiguration of all Software and device drivers/patches etc. if required. In case 7 Years warranty is beyond standard warranty period of the equipment, the extended warranty shall be the responsibility of SIA.			
4	Tender Information : Duration of assignment	3	Duration of assignment : 2 years	We understand that duration of assignment i.e. project completion duration is of 2 years. Request to confirm.	Project completion duration is of 2.5 years	
	Expected Implementation Schedule	87	The bidder is expected to complete the implementation within 18 months from the date of award of contract by the utility.			
	7.2 Project Schedule	398	The project implementation schedule shall be not exceed 18 months from the date of award.			
	l) Implementation Schedule	432	8/12 months from the date of award for various milestones			
5	Attachments to bid: 12.1.2	16-17	Format for Attachment 5 to Attachment 1	We request you to provide the formats of Attachment 5 to Attachment 11 as the same could not be located under tender documents	Integrity Pact, Make in India Letter attached in Corrigendum. (Attachment 5 to 1 can be ignored).	Page Number 91 Integrity Pact Attached. Page Number 98 Make in India (Along with Officer Orders)

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6	Price Bid, Cl. 12.2	17	Further, The Bidder shall quote rate and applicable GST for each item in the relevant field of Excel BOQ template (Price Bid). The Excel BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns If agency does not mention any GST rate, it will be treated that GST is inclusive in the quoted Basic Rate.	1. The present price format is without any column for entering GST rate and filled up quantity. 2. Price schedule may get modified by a bidder unknowingly also , so we request you for issuance of excel sheet of Price bid format with cells locked for modification by any bidder and with following columns to adhere to your requirements. 1. Unit qty. and unit rate 2. Unit GST rate 3. Total with and without GST 4. FMS unit rate 5. FMS unit GST rate 6. FMS Total with GST 7. In case if FMS is not applicable for sub-station equipment, cell is requested to be locked for entering any value 8. Provision to entry additional items under each category	Price Bid Attached with Corrigendum .(Excel attached).	Price Bid Attached with Corrigendum .(Excel attached).
	C3: Price proposal	74 -84	Price bid formats			
7	Bid Security, Cl. No. 20.3	21	Wherever Bids under Joint Venture route are permitted as per the Qualifying Requirements in the Bidding Documents, the Bid Security Declaration by the Joint Venture must be on behalf of all the partners of the Joint Venture.	We understand that in case of Consortium / JV, a bidder has to submit consortium/jv formation document and any member of consortium can submit the bid security if consortium/JV authorizes any member to submit the bid security. Request to confirm our understanding.	It shall be same as mentioned in RFP.	
8	G. Interpretation of the Model Technical Specifications (MTS) and the RFP document : Clause no. 44.2 and 44.3	34	This Document should be read in consonance with the MTS document.	The bid document already comprises of technical specifications. Kindly provide us MTS document if it is an additional document.	The bidder shall consider RFP as a single document wherein Technical specifications is a part of it. However same will be revised through corrigendum.	MTS Document is same as RFP Floated .Additional Details of Technical Specification added in Corrigendum starting from Page Number 10)
			In case of any conflict with any provision relating to the MTS document and the bidding document, the provisions of the Document shall prevail for all intents and purposes			
9	Bid submission date as per TB 23.1	36	The deadline for bid submission is 21.02.2022	We understand that information provided in NIT overrules ITB clause 23.1. Please confirm our understanding	New dates will be shared after clearing of Pre-Bid Queries and Finalisation of Corrigendum.	Will be updated in REC Portal.
	Bid submission date as per NIT	1	Last date of submission of bid 04.03/2022 11Hrs			
10	Section IV-SBD	38	The following qualifying requirement must be met by the Lead and Consortium Partner:-The bidder shall provide evidence of previous experience in the design, engineering, supply, installation, testing and commissioning of atleast two SCADA & DMS (Supervisory Control and Data Acquisition System & Distribution Management System Projects for POWER DISTRIBUTION (11KV or above) in the last seven (7) years meeting the following:-	-We understand that purpose of qualification requirements is to ascertain that bidder has required technical and execution capabilities for the last 10 to 15 years and not just limited to short term period of seven years only. - It is not necessary that a bidder especially located in India who executes/maintains/executing such projects on regular basis for the last 10-15 years secure such orders every year as it depends on opportunities available in Indian market. - Usually SCADA/DMS companies are global companies who executes such type of projects at global level through their parent/group companies using the same products especially SCADA/DMS S/W and RTU/FRTUs. -. Sometimes such projects comes in two parts i.e. SCADA/DMS Hardware & Software as one tender and field equipments like RTU/FRTU/RMU/FPI etc. under a separate tender. Queries : 1. We believe that parent and group companies experience certificates are also eligible to qualify under this criteria without doing any consortium/JV. Request to confirm our understanding. 2. SCADA/DMS/OMS projects executed without supply of RTU/FRTUs but integrated with required quantity of RTUs/FRTUs of different makes also qualifies these qualification criteria. Request to confirm our understanding. 3. Projects whose SCADA/DMS portion has been executed for one or many towns and RTUs/FRTU integrated to minimum quantity defined in qualification criteria also qualifies these qualification criteria. Request to confirm our understanding.	1) Only Lead and Consortium Partner shall meet the requirements individually as per RFP. 2) It will be same as mentioned in RFP or subsequent corrigendum of qualifying criteria. 3) It will be same as mentioned in RFP or subsequent corrigendum of qualifying criteria.	Evaluation Criteria Corrigendum already Shared

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11	Form F-1: Technical Proposal Submission Sheet, clause 3	44	We are aware that the Price Schedules do not generally give a full description of the work to be performed under each item and we shall be deemed to have read the Technical Specifications, Drawings and other Sections of the Bidding Documents to ascertain the full scope of work included in each item while filling in the rates and prices. We agree that the entered rates and prices shall be deemed to include the full scope as aforesaid, including overheads and profit.	- Price schedule provided is without any quantity details and quantity has been provided in BOQ. - Many items in Bill of quantity (BOQ) has been found nil/ NA qty but technical scope/ specifications asks for the same. Ideally Technical scope, BOQ and Price Schedule should be remain aligned to each other to avoid any ambiguities during execution. - A solution for a technical scope may require few items to be supplied even if not specifically mentioned in BOQ e.g. a dummy breaker relay under RTU but if items like numerical relays mentioned in technical scope of supply but quantity found mentioned nil/NA will lead to ambiguity to execution teams. We therefore request for issuance of Model Technical specification and a synchronized price schedule with Bill of quantity for better clarity.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
12	Form F- 2 : Price Proposal Submission Sheet, cl. No. c	46	The total price of our Bid is quoted in online tendering portal. Our quoted prices are inclusive of all taxes and duties except GST	We understand that there is a typographical error and price has to be submitted in online tendering portal including GST in line with other clauses of RFP. We request you to confirm our understanding and modify Form F-2 format accordingly.	To be considered as inclusive of all taxes and duties including GST, same will be revised through corrigendum.	Price Bid Attached with Corrigendum (Excel attached).
13	Form F5, Integrity Pact	53	Form F5, Integrity Pact	No format has been provided under Form F5 for Integrity Pact page no. 53. We request you to provide the same. There is another form i.e. Form F5 at page no 54 which is for "Certificate as to Corporate principal"	Format Attached.	Integrity Pact Attached in Corrigendum
14	Contract Forms-Agreement Clause Vi & Xi	55	The following documents (collectively referred to as "Contract Documents") shall be deemed to form and be read and construed as part of this Agreement, viz.: Vi)the MTS document xi. Appendix A & D to N;	We request you to provide following documents as the same could not be found under RFP 1. MTS document 2. Appendix A & D to N	1) Model Technical Specification (MTS) is already covered in RFP and subsequent corrigendum. 2) REC to share	MTS Document is same as RFP Floated .Additional Details of Technical Specification added in Corrigendum starting from Page Number 10).
15	C 2.12	65	C 2.12: PREFERENCE TO MAKE IN INDIA AND GRANTING OF PURCHASE PREFERENCE TO LOCAL SUPPLIERS. : Refer Annexure-II to BDS	We request you to specify page no. of RFP where Annexure-II has been provided as the same could not be located under RFP.	Make in India is already covered in the RFP Chapter-1, 1.3.2. Annexure-II will be shared by REC	Attached in Corrigendum Page Number -98
16	Form F1: Project management cost, Specific exclusions	76	Furniture for the computers required for SCADA/DMS system	We request you clarify the scope of furniture for a bidder under BOQ and price schedule as there is a difference observed in scope under various sections of RFP.	Furniture will be in Utility's Scope	
	Price schedule, C1 : Control room furniture	77	Lot :			
	1.3.6 Facilities to be provided by Employer/Owner (Utility)	98	k. Suitable space/Infrastructure incl. civil works, ----- , furniture etc. for Control center/DR, Substations -----			
	5.2.10 : Furniture	212	Utility shall provide necessary furniture & shall look aesthetically pleasing. It is not in the scope of contractor.			
Proposed system		Furniture :-Tenderer shall provide set of suitable furniture for installation of SCADA equipments like servers, workstations, ----- for MCC & BCC.				
17	Price Schedule	76	Price Schedule	No quantity has been found mentioned under Form F2. We request you to provide the quantity aligned with Bill of quantity provided under Section 9 at page no. 424.	Price Bid Attached with Corrigendum (Excel attached).	Price Bid Attached with Corrigendum (Excel attached).
	Form F2 : Firewall	77		We understand that there is no requirement of IDS system at station level to be supplied. Being a very high value item, if the same is envisaged to be supplied by bidder at station level also, we request you to mention the quantity of the same under BOQ and Price schedule alongwith redundancy requirements if any.	Firewall at substation shall have IDS and IPS facility	
	8.10 Intrusion Detection System (IDS)	235	At station level, only Behavioral based self-learning IDS system is envisaged , bidder can propose for any in line solution with the requirement. The self-learning IDS along with central cyber security management system at station level will be put in learning mode for 1 month for building a base guideline of the network such as its nodes, traffic flow etc. and after that it may work in protection mode, for detecting any anomaly. However, IDS will be converted to IPS after review and decision by Purchaser.			
Bill of quantity, E1	427	E1: RTUs				
18	Form F2 (Price Schedule)	80	E1: RTUs : Single TFT PC for LDMS	We understand that UPS required for Single TFT PC for LDMS system shall be supplied by purchaser. Please confirm our understanding. If the same has to be supplied by bidder, it is requested to include the quantity under Price Schedule and BOQ.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ

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19	Form F2 (Price Schedule)	77	Additional Item 1,2,3	Please clarify the usage of additional items and where these shall be installed to understand your overall requirements.	Additional Item 1(ZCC- for 4 Zones):- Two ZCC and other two control centre are MCC and BCC Additional Item 2 - Modular Rack for Servers and networking devices (Including DG Set):- Revised BoQ will be shared through corrigendum. Additional Item 3 - Cyber security servers (For Set-1):- Redundant Anti virus, and active directory server, 1-patch managemnet, 1- syslog	Page Number 72- Revised BOQ
20	Form F3 (Price Schedule)	78	SCADA/ Disaster Recovery Control Cost (BOQ) FOR SCADA DMS CONTROL CENTRES	We understand that BCC and DR hardware & software are at one location only and under Form F3 only. Request to confirm our understanding.	Both MCC and BCC (DR) are located in south Mumbai	
21	BOQ, E : Communication system	429	Annual charges for 100MBps Links with RTUs : 82 Annual charges for 2MBps Links with FRTUs /FPI : 2770	1. Qty. of RTU is 74 only but requirement is of 82 no. We request you to clarify the scheme. 2. Redundant RTUs has been asked. Please clarify whether communication link will be redundant sets or just one. We request you to increase the quantity of links if separate communication links are required for redundant RTU as full redundancy cannot be acheived without dual communication link. Alternatively, we suggest to have single RTU with dual Power supply and CPU card if only one link is required. 3. We request you to specify the no. of years for which 100MBps and 2MBps network links are required.	1) Revised BoQ will be shared through corrigendum. 2) Dual Link is considered, same will be shared through corrigendum. 3) Entire FMS period	Page Number 72- Revised BOQ
22	BO1 , H1	430	UPS battery for 30 minutes backup	We recommend for 1-2 hour backup as a minimum as orderly shutdown of machines in case of complete power failure may take one hour time.	It will same as mentioned in RFP. DG set will be provided by utility.	
23	BO1 , J1	431	RMU -118 nos.	We request you to provide the breakup of type & quantity of RMU under price schedule and BOQ.	Rmus Part not part of ADMS RFP. Will be cleared in Corrigendum.	Page Number 7- Point 23
24	BO1 , J5	431	Control/power cable for RTUs from outdoor switchgear,if any at S/S and numerical relays : Qty nil	We understand that no cables are required to be supplied for 1) For numerical relays as qty. of Numerical relay supply is nil. 2) Cable has to laid from RTU to other equipments within control room only as per technical specification . We request you to confirm our understanding.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
25	Price schedule (PS) IT Racks BOQ	77, 376, 425	PS : Add. Item 2 : DG set IT Racks : Desired capacity of industry stadard auto-DG set need to be provisioned for addressing all requirements of unforeseen power sully interruptions BOQ : Add. Item 2 : DG set	1. We request you to review and confirm requirements of DG set. If the same is required, please mention the same as a separate line item under Price Schedule and Bill of quantity. 2. We also request to provide the specifications of DG set if needed.	DG set is in utility's scope however modular rack as mentioned in RFP and subsequent corrigendum shall be in bidders scope.	Page Number 72- Revised BOQ
26	1.47 Layer 2 Industrial Grade Managed Ethernet Switch	255	Specifuications of Industrial Grade Managed Ethernet Switch	1. We understand that scope do not include supply of any Industrial Grade Managed Ethernet Switch as the same has been not specified in BOQ or price schedule. Please confirm our understanding. 2. as there is no line item under BOQ and Price schedule for the same as well for IEC 61850 relays and also RTU shall be required to be connected to Routers/Modems directly to MPLS network. Request to confirm our understanding.	1) Revised BoQ will be shared through corrigendum. 2) Supply of IEC 61850 relays is not in bidders scope however integration & testing of signals with RTU/ADMS of the same will be in bidders scope.	Page Number 72- Revised BOQ
27	FMS, Clause no. 3	94	Facilities management services (FMS) for maintaining infrastructure, activities for creation/ modification /deletion of database / display, reports , GIS data maintenance and activities related to additional RTU/FRTU/ and enablers etc. procured by utility to cater growth of electrical distribution network . During the FMS period any creation modification/addition/deletion of database incl. GIS , RTU/FRTU/displays/ reports, limits setting etc. shall be ensured in line with growth of electrical network in form of new like RTU/FRTU/ RMU/Sectionalizers/ FPIs , numerical replays etc. and requirement provided by utility. The activities shall be ensured for atleast post successful completion of acceptance tests for a period of seven years from the date of completion of operational acceptance of the SCADA/DMS System. However, under RDSS scheme, utilities will be funded & awarded for FMS for two years from the date of Go-Live / S.A.T only but bids will be evaluated considering 7 years of FMS	1. We understand that FMS requirement is of seven year and only for SCADA/DMS equipment and not for sub-station equipment like RMU,Auto-reclosure, Sectionalizers, FPI,Numercal relays etc, Please confirm our understanding. 2. We understand that under FMS period, modification/deletion of database is limited to license limits only and beyond license limits it shall be done on chargeable basis. 3. We request you to specify the system size including the expansion capabilities so that under FMS such additional activities remains limited to license limits only. 3. We also understand that such modifications shall be limited only for bidder supplied equipments and not for third party equipments. 4. We understand that GIS system is out of scope of this project but it's integration is under scope of work and corrsponding incremental data increase updation in GIS under FMS is also under scope of work limited to permissible change order quantity of RFP with commercial settlements. Please confirm our understanding. 5. Please specify the GIS data size.	1) FMS period of 7 years will cover the scope of ADMS bidder's scope. 2) System sizing will be shared through corrigendum and any addition/deletion will be limited to license limit. 3) System sizing will be shared through corrigendum. 4) GIS integration is in bidders scope, system sizing will be shared based on that incremental changes shall be made by bidder as per RFP payment T & C. 5) BEST to share GIS data size	Updated in Corrigendum

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28	FMS, Clause no. 3	95	The Scope of Work ----- under this project during 7 year Facility Management Services (FMS) period along with Supervision & Operationalizing 7 year warranty of the SCADA,DMS,RTDAS System and communication network after the Operational Acceptance of the same.	We understand that scope of work does not involve supply of any RTDAS system and hence scope of execution as well FMS do not include any work related to RTDAS. Please confirm our understanding.	Yes, FMS period of 7 years will cover the scope of ADMS bidder's scope.	
29	Clause 5: Supply of Equipment and Material	95	Any item though not specifically mentioned, but is required to complete the project works in all respects for its safe, reliable, efficient and trouble free operation & to meet performance, availability & functional requirements as envisaged in the RFP shall also be taken to be included, and the same shall be supplied and installed by the SIA without any extra cost	There are many requirements mentioned under technical specification including high value items but the same has been not quantified under Bill of quantity or under Price schedule e.g. numerical relays , IEC 61850 switches, Gateway/ Routers for RTU, RAS system for RAS features, GIS for GIS data under ADMS system, Furnitures, communication links for interfacing with other systems and many more. We request either to quantity such items or limit such items to a maximum value of 1% of total quoted price.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
30	Clause 6	96	Testing and Commissioning: The SIA shall be responsible for the testing processes such as planning (includes preparing test plans and defining roles and their responsibilities), preparation (consists of preparing test specification, test environment and test data) for all tests viz. Type tests, FAT, SAT and successful commissioning. During the FMS period any modification/addition/deletion of database/displays/ reports etc. shall be ensured in line with growth of electrical network in form of new like RTU/FRTU/ RMU/Sectionalizers / FPIs provided by utility. SIA shall also be responsible for successful conduction of cyber security audit by CERT.IN empaneled agency.	1. We understand that such modification/deletion of database is limited to license limits only and beyond license limits it shall be done on chargeable basis. 2. We request you to specify the system size including the expansion capabilities so that under FMS such additional activities remains limited to license limits only. 3. We also understand that such modifications shall be limited only for bidder supplied equipments and not for third party equipments. 4. We understand that GIS system is out of scope of this project but it's integration is under scope of work. 5. We understand that cyber security is limited to only once in a year. We request you to quantify the cyber audit requirements under Bill of quantity and Price schedule.	1) System sizing will be shared through corrigendum and any addition/deletion will be limited to license limit. 2) System sizing will be shared through corrigendum. 3) It will cover the scope of ADMS bidder's scope. 4) Yes 5) As Complied in RFP.	Page Number 61- Under System Sizing
31	8) Integration Scope	96	The scope of integration of external systems includes, legacy SCADA/DMS system, RTU/FRTU, IT systems, Numerical relays etc. including billing , customer care , GIS etc. already existing and functional in the utility, but outside the present scope of work and defined in RFP by utility .	1. We request you specify and quantify the external system integration under Price schedule and Bill of quantity. 2. We also request to add the communication link requirements under price schedule and BOQ. communication link.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
32	1.3.9 Items of Special Interest	100	c. The database, displays and reports for SCADA/DMS/OMS/RT-DAS system are to be developed by the contractor;	We understand that thee is a typographical error and RT-DAS system is not under scope of supply. Please confirm our understanding.	Agreed	
33	Proposed system	111	At RSS there is battery bank of 300 AH operating on 110V DC. It is proposed to provide Inverter & other Circuitry so that all SCADA equipment such as local HMI PC, Communication Modems, and Routers shall be powered up from inverter. Alternately all equipment's shall work on 230V AC through Inverter. The other equipment's such as RTU, LAN switches, etc. can work on 110v DC.	1. We understand that there is a typographical error as RSS of BEST are already existing and scope of work involves ADMS equipments supply at MCC/BCC/DR and not at RSS. Please confirm our understanding. 2. Kindly provide the list of equipments to be supplied at RSS under BOQ and price schedule if any.	1) At RSS (Receiving Substation): RTU along with other communication equipments as mentioned in RFP/subsequent corrigendum shall be installed and testing shall be carried out with ADMS. Existing SCADA/RTU wherever applicable, decommissioning is in bidders scope. 2) Revised BoQ will be shared through corrigendum.	Page Number 72- Revised BOQ
34	Proposed system	111	The RTU, IT equipment's shall comply to Ministry of Power Order dated 6 june2021 regarding testing procedure to be followed for SCADA system	1. Kindly provide us a copy of the same for our review. 2. We request you to provide copy of all such orders referred under this RFP either from ministry or by any other agencies for our reference.	Updated in Corrigendum	Updated in Corrigendum
35	Proposed system	111	It is also proposed to integrate ABT, HT meter data on DLMS protocol in SCADA at Control level from AMI system. The supplied SCADA system shall have capability to show the AMI data of each feeder, Transformer & other equipment's in SCADA SLD & other reports. The system shall also able to show the actual data acquired through Numerical relays & AMI system. The AMI data & data captured through Numerical relay shall be made available at respective RSS also.	1. We request you to reconfirm integration with AMI system and data tranfer of the same to RSS system. 2. We understand that our scope is limited to transfer of data to RSS system but necessary changes in hardware/software shall be taken care by BEST as same has been supplied by multiple agencies. 3. We also request to add communcation link for the same under Price schedule and BOQ.	1) ADMS integration with DMS, AMI, FFA, IT/OT, SAP,etc system as mentioned in RFP/subsequent corrigendum shall be done by ADMS bidder 2) Please refer RFP 3) It will be shared through corrigendum.	Page Number 72- Revised BOQ Page Number 44- INTRODUCTION & GENERAL INFORMATION
36	Proposed system	111	Furniture :-Tenderer shall provide set of suitable furniture for installation of SCADA equipments like servers, workstations, monitors, printers, GPS unit, SCADA/Communication accessories etc. along with Big half-round table, Executive chair (3 Nos.) & Computer chairs (4 Nos.) for SCADA system operating personnel for MCC & BCC, 2 executive tables with chairs & 2 revolving chairs for RTU test set up lab. 4 revolving height adjustable chairs for SZCC, CNZCC. Computer Table for HMI PC at all RSS. The furniture shall be integral part of SCADA system equipments offered for MCC & BCC	1. Furniture supplies has been excluded from scope of supply under many clauses of this RFP. Please reconfirm the requirements. 2.4 revolving height adjustable chairs for SZCC, CNZCC. Computer Table for HMI PC at all RSS.: We understand that our scope of work is limited to supply and commissioning of furnitures only at MCC/BCC/DR and not for RSS/SZCC,CNZCC. Furniture for other locations other than MCC/BCC/DR is out of scope of work. Please confirm our understanding.. 3. We request you to metion the quantity and type of each furniture under price schedule and BOQ instead of 1 lot as mentioned in BOQ to bring a better clarity to a bidder.	Furniture will be supplied by the utility	

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37	Proposed system	112	Connectivity of numerical relays to RTU shall be on Fibre/ Ethernet cables having proper screening to avoid any interference of EMI.	1. No quantity of Numerical relays , IED 61850 switch has been found mentioned under price schedule/BOQ. We understand that this is only for our information and this scope of work is under Numerical relay /SAS supplier.Please confirm our understanding.	Numerical Relay will not be scope of ADMS RFP however integration/testing with RTU is in scope of bidder.	
38	1.2.4.2. SCADA/DMS system with IT system (optional)	119	1.2.4.2. SCADA/DMS system with IT system (optional)	We understand that this is just for information and scope of work do not cover any integration with IT system as the same has been not found mentioned under Price schedule and BOQ. Please confirm our understanding.	Integration is in scope of ADMS bidder	
39	1.2.4.2 For data exchange between SCADA/DMS control centers & DR center, optional (SLDC):	119	1.2.4.2 For data exchange between SCADA/DMS control centers & DR center, optional (SLDC):	We understand that this is just for information and scope of work do not cover any integration with SLDC system as the same has been not found mentioned under Price schedule and BOQ. Please confirm our understanding.	Integration is in scope of ADMS bidder	
40	1.7. RT-DAS system	139	The RT-DAS system shall use control center of Group B towns and shall have SCADA features except control capability. However, the same may be upgraded for enabling control, if need be without additional license and only by adding output cards and enabling in the configuration software	We understand that this is just for information and scope of work do not any RT-DAS system.Please confirm our understanding.	This is not applicable for BEST	
41	2.13.1 : Outage management system	157	Field Force Automation	We could not find specifications of hardware and software features required for FFA. We request you to provide the same.	FFA Technical Specifications will be part of corrigendum.	Page Number 150 of Corrigendum
42	4.5.1.7. Code Management	194	A code management utility shall be provided for documenting and controlling revisions to all SCADA/DMS application programs. The utility shall maintain a library of source, object, and executable image code and provide a controlled means for changing library files containing this code.	We understand that no source code is required to be supplied under this category of requirement. Please confirm our understanding.	Comply as specified in RFP	
43	General		General	1. If GIS system already exist ? What is the make of GIS & it's version ? 2. Please confirm all assets /modeling envisaged in this project scope for DMS/OMS . It shall remain in scope of either employer or GIS implementing agency. Please confirm our understanding.	GIS System Version : ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1	
44	General		General	Please provide clarity on number of Towns covered in scope & classification with respect to Group A,B,C under this project.	RFP floated for BEST lies under Group A . Only 1 Town is there in BEST.	
45	General		General	Clarity required in terms of number of Control Centre envisaged in scope & DMS/OMS Functionalities based on Group A,B,C. We understand that scope is limited to MCC, BCC and DR at same location. Please confirm our understanding.	MCC, BCC and Two ZSS will be in mumbai city	
46	Section2 ,Chapter-2, Clause 2	140	DMS Functions	More Clarity required for Group A,B,C & functionalities envisaged	RFP floated for BEST lies under Group A . Only 1 Town is there in BEST.	
47	General		General	Kindly mention which of the subsystems (Billing ,MDM,MDAS ,FFA,GIS) are already existing along with make/OEMs	GIS System Version : ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1	
48	General		General	Field Force Automation (FFA) is completely different subsystem ,is this envisaged in scope ? If yes, please provide the specifications and quantity of hardware/software required.	FFA is envisaged in ADMS RFP. Technical Specification and BOQ will be updated and shared in Corrigendum.	Page Number 150 of Corrigendum
49	General		General	What is the scope for ZCC ? No BOQ mentioned for ZCCs	It is considered under additional item 3 in BOQ	
50	General		General	Is Communication Server in hardware BOQ is meant for ICCP Software?	NO, Hardware for ICCCP and Communication server mentioned separately	
51	4.1.1. Design and Coding Standards for SCADA/DMS applications	182	(a) Expansion/ scalability: software shall be dimensioned to accommodate the ultimate size of SCADA/DMS system envisaged.	Please specify the size of SCADA/DMS system envisaged so that we can provide license accordingly. We understand that consumer size of BEST is 1 million so SCADA/DMS license should be for 1 million points. Please confirm our understanding.	Page Number 61- Under System Sizing	Page Number 61- Under System Sizing

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
52	General		Execution and FMS scope general queries	<p>1. We understand that under FMS period, modification/deletion of database is limited to license limits only and beyond license limits it shall be done on chargeable basis. Please clarify.</p> <p>2. We request you to specify the system size including the expansion capabilities so that under FMS database modification activities remains limited to license limits only.</p> <p>3. Please specify the present GIS data size to be integrated with SCADA/DMS system.</p> <p>4. We also understand that database/display modifications during FMS shall be limited only for bidder supplied equipments and not for third party equipments. Please confirm.</p> <p>5. We understand that GIS system is out of scope of this project but it's integration is under scope of work. Please clarify.</p>	<p>1. There is no linkage of FMS service activity with license capacity of the supplied system. FMS is applicable for 7 years as specified on page 381, Section 6, chapter 2, clause 2.1</p> <p>2. system sizing will be provided through corrigendum</p> <p>3. GIS System Version : ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1</p> <p>4. It is in bidder scope FMS is applicable for 7 years as specified on page 381, Section 6, chapter 2, clause 2.1</p> <p>5. Yes</p>	Page Number 61- Under System Sizing
1	8.8	234	<p>Security Information and Event Management (SIEM)</p> <p>The substation level security system will push logs as well as raise flags to the central cyber security management system (CSMS), there after the logs are to be pushed to SIEM. The logs should be routed through DMZ LAN network to the corporate LAN SIEM interface. The Central level CSMS should be easily integrable with the SIEM/SOC. If required, SIEM Log collector modules shall be installed to collect logs, compress and transmit to the Enterprise level SIEM. The SIEM is will be designed in redundant configuration hence integration to SIEM should be considered accordingly. All security devices (firewall, IPS) and other sources (antivirus, networking devices, User authentication system, access control, Databases etc.) should be able to push logs to CSMS in flat file format. The CSMS should be able to push the data/logs received with two time stamps, those are time stamp of data received and time stamp data pushed to SIEM.</p>	SIEM is part of the project or already existing in BEST IT/Infra ? Need more clarity for SIEM scope. SIEM is not mentioned in software BOQ/Price Schedule Please mention the quantity of the same in price schedule and bill of quantity.	Supply of SIEM is not in scope however provision for integration of log from central server to SIEM is required as specified	
2	8.9	234	Central Cyber Security Management System	Need more clarity for CSMS system. It is Syslog server / Centerize MGMT System for firewalls & IDS or HIDS/IPS system. Pls share your inputs/idea.	Provided in RFP document	
3	8.1	235	Intrusion Detection System (IDS)	<p>(1) Please share clear specification & BOQ for station level IDS device with port details/speed/RPS / Protocols , HA & NON-HA etc.</p> <p>(2) Industrial level IDS/IPS will be completely different from Enterprises firewalls. (3) Station level IDS can fwd their logs to control center syslog server but cant MGMT console of CC firewalls. or we use / consider same make and mode; as per CC's firewalls. Please share your suggestions.</p>	<p>1. Station level Firewall is considered as part of RTU panel item</p> <p>2. Minimum specifications are given in RFP however bidder to propose firewall of suitable configuration based on traffic scenario.</p> <p>3. MGMT console for substation firewall is required</p>	
4	8.13	237	Firewall for OT System	kindly share three specification for Internal Firewalls/External Firewalls and IDS for substation. As per standard all sets should be from different OEM/Make & Model.	Yes, three sets should be different OEM. Minimum specifications are given in RFP however bidder to propose firewall of suitable configuration based on traffic scenario.	
5	8.13.2.11	241	Anti-APT Solution	Need more clarity about solution , cloud base solution can be propose for CC firewalls , not for Sstation IDS. It's hardware and software has been not found mentioned under price schedule or BOQ. Please provide the same.	This feature is expected in firewall at MCC and BCC	
6	8.13.3.14	245	<p>8.13.3.14 Access Control</p> <p>a) Certificate Authority and Digital Certificates</p> <p>b) Digital Keys</p> <p>c) AAA and Single Sign-on</p> <p>d) Cryptography</p>	Request to elobrate the requirement	Domain level user access control (Authentication, Authorization and Audit) and In the SCADA, encryption shall be used where confidentiality is required	
7	Section 9	424	(A) SCADA/DMS control Centre	<p>(1) NMS/ Backup/ AV/PM/SIEM/Jump Host server has been not found not mentioned in BOQ/PS.</p> <p>(2) CSMS system / server is not mentioned in the BOQ/PS.</p> <p>(3) SMS Gateway is blank in BOQ/PS.</p> <p>(4) Field Force Automation Hardware Cost(Mobile Server,Mobile Devices,OS License,Data Base License) , need more clarity .</p> <p>(5) Storage & Backup Devices : Please share specifications of the same.</p> <p>(6) Firewall & network IDS/IPS: 8 nos. are mentioned, pls confirm. Please verify the quantity including RSS end if any.</p>	<p>1. NMS server is allready there in BOQ, ISR server, San Switch and San Storage are mentioned in BOQ for online Backup</p> <p>2. This is part of the firewall supply</p> <p>3. It is not in scope and included in IT/OT project</p> <p>4. Will be provided through corrigendum</p> <p>5. San Storage Specification will be shared in corrigendum.</p> <p>6. Details will be provided through corrigendum</p>	Page Number 85- San Switch and San Storage Specification
8	BOQ		Additional Item 1(ZCC- for 4 Zones)	Firewall & network IDS/IPS Nos. 4.00 : these are High availability (HA) or NON-HA Firewalls.Please clarify.	High availability	
9	BOQ		Additional Item 3	Cyber security servers: For Set-1 : 6 nos. Are these Anti Virus/ Patch Management/CSMS servers ? Pls cLarify.	To Comply CEA Guidelines.(2- Anti virus, 1-patch managemnet, 1- syslog, 2- Active directory).	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
10	BOQ		D1 Server/ workstation Hardware	BOQ is not matching with main control center. Ideally MCC and BCC qty. are same. Please confirm the quantity of same once again.	Additional items of ZCC and cybersecurity are included in MCC BOQ.	
11	BOQ		Firewall qty.	Firewall & network IDS/IPS No. 6 , pls confirm .	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
12	5.2.1 Servers	203	The minimum hardware configuration of the servers shall be:	19" LED color monitor : Usually KVM are used to connect with all servers. Please confirm your requirement.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
13	External STORAGE drive :		One hot pluggable port for external STORAGE drive :	Only ISR server needs to be connect with storage . All lother should not connect with Storage. Backup server can connect with NAS on network. Pls confirm	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
14			Genral	.	Query not clear, needs more clarification on query	
				* SIEM		
				* NMS		
				* Backup		
				* AV		
				* PM		
				* HIDS/IPS		
				* CSMS		
				* SMS		
15	SECTION 5 CHAPTER-4	365	<p>Technical requirement for Server Rack: 4nos of Server Rack with 40 kW IT Load. To meet above requirements, BEST wishes to deploy Intelligent Racks which should deliver the following features and benefits.</p> <ol style="list-style-type: none"> Remote Monitoring solution with Biometric Access Control for Security and Novec / Fitech 1230 Fire Suppression System for critical IT components inside the Rack's Intelligent Data Centre Infrastructure with Closed Loop In-Rack Cooling System with inbuilt cold & hot aisle within the Rack. Total 4 Racks should cater to IT load up to 40 kVA. In-Rack Closed Loop Precision Air Conditioning Unit of 20kW Capacity with N+1 redundancy. (3nos working & 1no standby) The electric panel provided for the unit must be equipped with main incoming power isolation switch, additionally the unit must be provided with under voltage / over voltage / phase reversal / single phasing protection. The electrical panel must also be providing with relay block for common alarm. Micro Processor Controller : Seamleass integration with BMS system CCTV Surveillance System: IP Based CCTV System with 2nos of Camera, NVR with Storage for 30days back-up on motion based recording. Standalone Ultrasonic Rodent Repellent System Standalone UPS System - 40 kVA – 2 Sets - 2 x (600W x 800D x 1876H (mm)) Battery Cabinets & Battery Circuit Breakers: 40 kVA UPS with 12 V VRLA Batteries for 30 Min Battery Back up : 12V- 120 Ah SMF Battery (Li-ion)– 20nos Maintenance and Support: Product OEM shall offer the Data Centre with 24 x 7 services through their authorized service engineer for a period of at least 5 year (60 months from start up or 61 months from supply whichever is earlier). Water leak detection system DG Many other requirements 	<ol style="list-style-type: none"> We request you to review your requirement of IT Racks with these specifications and availability of Space in your control room building and reconfirm the requirement of IT Rack or normal Panel once again as usually SCADA/DMS control center itself are built with these infrastructures like Air conditioner, UPS, DG set, Roden proof panel, Bio metric access of control room etc. Please confirm requirement of Bio-metric access requirement under Server Rack. Please confirm requirement of Fire Supression system requirement under Server Rack. Please confirm requirement of in-Rack Closed Loop Precision Air Conditioning Unit of 20kW Capacity with N+1 redundancy. (3nos working & 1no standby under Server Rack. UPS of 20 KVA has been asked under scope of supply. Please confirm if there is a separate requirement of 40 KVA UPS under IT server Racks. Please clarify and confirm if a DG set is required under IT rack. Please provide the specifications of DG set. There is no quantity mentioned for IT Rack under BCC/DR. Please provide the quantity of the same under BOQ and Price schedule. Please confirm the requirement of Precision air conditioning, fire detection & suppression, Water leak detection and humidity sensors) and security devices under IT Racks. We understand that Precision Air conditioning units should have N+1 redundant topology in each Row & UPS system should have N+N redundant topology. Please confirm. 	<ol style="list-style-type: none"> 2, 3, 4- Modular rack system is envisaged for the requirement as alternative to data centre 40KVA UPS supply is not under scope DG set supply is not under scope, same will be updated through corrigendum Revised BOQ will be provided through corrigendum. IT rack for BCC is required Modular rack system is envisaged for the requirement as alternative to data centre. As complied in RFP. 	Page Number 72- Revised BOQ(Modular Rack Not Considered)
16	SECTION 5, CHAPTER –2 Large Video Wall for MCC : Clause 2.2	347	<p>Proposed System: Large Video Wall shall be modular system with slim form factor DLP (Digital Light Processing) based high resolution LED rear projection technology. The LVW will be used to project displays of SCADA/ADMS system independently of workstation console monitors. The Large Video Wall systems shall be rear projection systems and shall be complete with all projection modules, supporting structures, cooling system and cabling. Design & installation of the Large Video Wall systems shall be coordinated with the Purchaser/SCADA OEM during project implementation</p>	<p>We recommend to change this line to : Large Video Wall shall be modular system with slim form factor DLP (Digital Light Processing) based high resolution Laser rear projection technology. The LVW will be used to project displays of SCADA/ADMS system independently of workstation console monitors. The Large Video Wall systems shall be rear projection systems and shall be complete with all projection modules, supporting structures, cooling system and cabling. Design & installation of the Large Video Wall systems shall be coordinated with the Purchaser/SCADA OEM during project implementation.</p> <p>Request to confirm.</p> <p>Justification : In 2.3 Features of this section and detailed specs- The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).</p>	Comply as specified in RFP	

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17	SECTION 5, CHAPTER –2: 2.3 Features	348	e. The LVW shall have LED based light source consisting of Red, Green and Blue LEDs or laser. The median LED/Laser life should be at least 60,000 hrs. The latency for picture projection shall be less than 20 msec i.e. the delay between receiving the content and displaying it shall not exceed 20 milliseconds	We recommend to change this line to : The LVW shall have Laser based light source . The median Laser life should be at least 60,000 hrs. The latency for picture projection shall be less than 20 msec i.e. the delay between receiving the content and displaying it shall not exceed 20 milliseconds. Justification : The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).	Comply as specified in RFP	
18	SECTION 5, CHAPTER –2 Clause 2.5 Interfaces BOQ : Section 9 : MCC BOQ : Sectin 9 : DR	349 424 426	b. The bidder shall consider TCP/IP and hardwired RGB connectivity with proposed SCADA System (MCC, NCC). For RGB connection, projection connectivity shall be provided for all the workstations CRTs. RGB and TCP/IP connectivity shall be independent. Page 424 :LED Based Video Projection System with 2x3 module configuration with each module atleast 70inch diagonal with common projector. Page 426 : DLP based Video Projection system with 3x4 Module configuration with each module at least 67" diagonal with common projector	3x2 configuration of video wall is required for (A) SCADA/DMS control Centre and 4x3 configuration is required for SCADA/DMS DR Control Centre. We request you reconfirm the sizes of both the control center and also please clarify is there any NCC location also.	LED Based Video Projection System with 2x3 module configuration with each module atleast 70inch diagonal with common projector.	
19	SECTION 5, CHAPTER –2 : Clause 2.8 : RGB & Video Insertion	351	b. The system shall be designed to accept Dual Link DVI signals with resolutions up to 4095 x 4095.	We recommend to change this line to: The system shall be designed to accept latest HDMI , Display port Justification: Dual Link DVI connector is very old connector and almost obsolete now . HDMI , Display port are the latest connector and support upto 4K resolution.	Specified as per RFP	
20	SECTION 5, CHAPTER –2 Clasue : 2.9: Wall Management Software	351	d. The software shall provide information on life cycle of the LEDs in form of running hours, Temperature of CPU & Projector, Wall temperature, and relevant frequencies	We recommend to change this line to: The software shall provide information on life cycle of the Lasers in form of running hours, Temperature of CPU & Projector, Wall temperature, and relevant frequencies Justification : In 2.3 Features of this section and detailed specs- The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).	Comply as specified in RFP	
21	SECTION 5, CHAPTER –2 clau : 3.0 VPS Diagnostics and Maintenance	352	b. LED age, expected life left	We recommend to change this line to:: b. Laser age, expected life left Justification : In 2.3 Features of this section and detailed specs- The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).	Comply as specified in RFP	
22	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	353	3 Display Technology (DLP): LED Based Rear Projection	We recommend to change this line to:: 3 Display Technology (DLP): Laser Based Rear Projection Justification : In 2.3 Features of this section and detailed specs- The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).	Comply as specified in RFP	
23	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	353	7 Light Source Type LED Optional: Laser, with multiple Laser banks with an array of diodes	We recommend to change this line to:7 Light Source Type: Laser, with multiple Laser banks with an array of diodes Justification : In 2.3 Features of this section and detailed specs- The luminance measured at the screen shall be minimum 2200 Lumens., is asked which can be achieved with Laser based Projection. Laser is the latest light source with optimum performance over a long period up to 11 years offer user high lumens per watt ratio with better brightness (~2400 lumens).	Comply as specified in RFP	
24	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	353	6 Cube & Controller: Cube and Controller should be from the same manufacturer	We recommend to change this line to:o: Cube and Controller should be from the same manufacturer. The OEM of video wall shall have atleast 1000 Laser installations in India Justification : This is to ensure video wall is being supplied from stable OEM to ensure after sales services.	Comply as specified in RFP	
25	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	354	Screen to Screen Gap ≤ 0.2 mm (Normal Temperature)	This varies from make to make. We request you to mention three makes which meet this specifications so that we can consider the product accordingly.	Comply as specified in RFP	

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26	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	354	Operating Temperature 0° C - 45° C	We recommend to change this line to:: Operating Temperature- 0°C - 40°C Justification : Average operating temperature of a control room is between 20–25°C. The videowall may be operated at temperatures between 0–40°C without any degradation in performance or reduction of component life. In case videowall is operated at temperatures between 40– 45°C it may reduce overall life time of components	Comply as specified in RFP	
27	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	354	10% - 95%, non-condensing	We recommend to change this line to:: 10%- 90%, non-condensing Justification : Maximum operating humidity of any control room is generally upto 60–70% . It will very difficult for any operator to work in control room with videowall over 80–90% 2. Videowall can run over 90% humidity but will adverse effect on the performance for the system in long run	Comply as specified in RFP	
28	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	354	Power Supply Cube and Controller shall be with Dual Power Supply, 95-240 V AC Auto Range @ 50 Hz. With Hot Swappable Power Supply	We recommend to change this line to:: Power Supply Cube and Controller shall be with In-built Dual Power Supply, 95-240 V AC Auto Range @ 50 Hz. With Hot Swappable Power Supply Justification : In-Built dual redundant power supply is to ensure high uptime, High availability and to reduce complexity and power losses due to long external cables	Comply as specified in RFP	
29	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix):	354	Complying to Safety UL, cUL, FCC Class A, CISPR22/85, CE, EN60950	We recommend to change this line to:: Cube and controller should be BIS certified. Justification : BIS is mandatory as per Circular of Department Of Promotion of Industry and Internal Trade No. P-45021/2/2017-PP(BE-II) dated 16th Sep.	Comply as specified in RFP	
30	SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix): Controller	0	Outputs to Connect with Video wall of (12 x 2, 3 X 2) configuration	We recommend to change this line to:: Outputs to Connect with Video wall of (3 X 2 and 4x3) configuration Justification : As per SECTION 9 BOQ there is requirement of 2 Video walls 3x2 configuration-for (A) SCADA/DMS control Centre and 4x3 configuration for (B) SCADA/DMS DR Control Centre.	Comply as specified in RFP	
31	5.2.9 Digital Light Processing (DLP) or LED based Video Projection System	212	0	There is mismatch between specs at section 5.2.9 Digital Light Processing (DLP) or LED based Video Projection System and SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix). Kindly remove section-5.2.9 Digital Light Processing (DLP) or LED based Video Projection System to keep uniformity of size and spec for both video walls.	Kindly refer Section 5, chapter 2 specifications	LED Based Video Projection System with 2x3 module configuration with each module atleast 70inch diagonal with common projector
32	5.2.9 Digital Light Processing (DLP) or LED based Video Projection System	212	a) VPS screen with 2x3 matrix with each module minimum 67" diagonal	Kindly confirm: 1. Total qty and configuration of video wall. As per BOQ there is requirement of 2 Video walls 3x2 configuration- 70" Full HD (A) SCADA/DMS control Centre and 4x3 configuration of 67" Cube for (B) SCADA/DMS DR Control Centre. Kindly change the size of VPS cube to 70". 3. There is mismatch between specifications at section 5.2.9 Digital Light Processing (DLP) or LED based Video Projection System and SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix) Kindly remove section-5.2.9 Digital Light Processing (DLP) or LED based Video Projection System to keep uniformity of size and spec for both video walls.	Kindly refer Section 5, chapter 2 specifications	
33	5.2.9 Digital Light Processing (DLP) or LED based Video Projection System	212	c) VPS Graphics controller shall be interfaced to the SCADA/DMS system through dual LAN connectivity.	1. There is mismatch between specs at section 5.2.9 Digital Light Processing (DLP) or LED based Video Projection System and SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix). Kindly remove section-5.2.9 Digital Light Processing (DLP) or LED based Video Projection System to keep uniformity of size and spec for both video walls. 2. As per BOQ there is requirement of 2 Video walls 3x2 configuration- 70" Full HD (A) SCADA/DMS control Centre and 4x3 configuration of 67" Cube for (B) SCADA/DMS DR Control Centre. But in specs we could only found 3x2 configuration in both sections: 5.2.9 Digital Light Processing (DLP) or LED based Video Projection System and SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix). Kindly clarify	Kindly refer Section 5, chapter 2 specifications.	
34	5.2.9 Digital Light Processing (DLP) or LED based Video Projection System	212	Each projector shall provide a minimum resolution of 1400x1050 pixels per module. The rear projection screens shall be capable of displaying full resolution of the LED source.	We recommend to change this line to:: Each projector shall provide a minimum resolution of 1920 x 1080 pixels per module. The rear projection screens shall be capable of displaying full resolution of the Laser source	Comply as specified in RFP	

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35	5.2.9 Digital Light Processing (DLP) or LED based Video Projection System	212	The configuration of the VPS (no. of screens and size of each screen) is defined in the BOQ.	1. There is mismatch between video wall configuration mentioned in this section and BOQ. As per BOQ there is requirement of 2 Video walls 3x2 configuration- 70" Full HD (A) SCADA/DMS control Centre and 4x3 configuration of 67" Cube for (B) SCADA/DMS DR Control Centre. 2. Also there are 2 different sections of video wall specifications: 5.2.9 Digital Light Processing (DLP) or LED based Video Projection System and SECTION 5, CHAPTER –2 Large Video Wall for MCC (2 X 3 Matrix) Kindly remove section-5.2.9 Digital Light Processing (DLP) or LED based Video Projection System to keep uniformity of size and spec for both video walls.	Kindly refer Section 5, chapter 2 specifications.	
1	TECHNICAL REQUIREMENTS OF RTU : Clause 1 i.e. General	247	Further , the equipments indicated in the MoP oder no 12/34/2020-T&R dtd 08.06.21 & CEA /PLG/R&D/MII/2021 dtd 11.6.21 and any amendment from time to time shall be adhered to.	We request you to provide a copy of this order for our review.	Order copy is allready attached in RFP document page no 66 , remaining order copies will be provided through corrigendum	Attached in Corrigendum Page Number -98
2	1.21, 2.1 : IED pass through	2,48,264	The Master Station user shall be able to perform a virtual connection with any IED connected to the RTU/DC, provided the communication protocol functionality, to support the information transfer from and to the IEDs. For example, the Master Station shall gather on-demand IED data, visualize IED configuration parameters, and IED source code depending upon the IED capabilities. On the other hand, the Master Station shall be able to download to the IEDs configuration parameters, code changes, etc. depending upon the IED capabilities. This feature is a support function considering in future implementation.	This requirement is of RAS system. We request you to mention this requirement under Software in price schedule and Bill of quantity and keep it for future implementation as the same cannot be demonstrated without it's purchase by purchaser being a third party software but it can be verified at our installed base.	As per Specifications this is the feature in RTU to manage IED configuration modification & download from IED.	
3	1.32 RTU & Communication Redundancy	249	Main and Standby RTU shall support all functionalities independently i.e. all Substation IEDs and Communication to Control Centre. Failover should take place in case of failure of the unit and failure of any communication channel	We understand the existing / new IED shall have two ports to achieve this feature i.e. IEDs will have two ports to report to redundant RTUs.Please confirm our understanding.	RTU shall have redundancy at CPU, Power supply and communication section	
4	1.44.25 RTU IO counts		RTU Panel should have Digital Input - 32 nos., Digital Output - 16 nos., Analog Input 4-20 mA - 8 channel	1. We understand that this IO size requirement is common for all RTU locations. Please confirm. 2. We understand that this is IO count is not per IO module but it is for each location. Please confirm. 3. We understand this IO count is including spare channel requirements.Please confirm 4. We undersand that all the I/O signals has to be ful-filled from this limit only.Please confirm. 5. In case of additional channel requirements, BEST shall purchase spare modules separatly.	1. Yes 2. I/O counts for each RTU panel 3. Yes 4. Only hardwire signals will be fulfilled from modules, RTU should support 5000 I/O points 5. Comply as specified in RFP, bidder may have to relocate cards as per site requirements	
5	1.45 Engineering Station (Laptop)	254	Engineering Station (Laptop)	Please specify the quantity of laptop to be supplied under BOQ and Price Schedule.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
6	1.47 Layer 2 Industrial Grade Managed Ethernet Switch	255	Technical specifications for the Managed Layer 2 Industrial grade, 61850-3 compliant Ethernet switch is given below	Please specify the quantity of Layer 2 switches to be supplied under BOQ and Price Schedule.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
7	(e) Communication with master stations simultaneously on IEC] 60870-5-104	262 247	(e) Communication with at least two master stations simultaneously on IEC] 60870-5-104 1.7 The proposed RTU shall communicate simultaneous with eight independent remote master (redundant) stations on IEC 60870-5-104 Protocol.	Please clarify the requirement of communication with master stations.	The proposed RTU shall communicate simultaneous with four independent remote master (redundant) stations on IEC 60870-5-104 Protocol. Each master stations have two IP adress entry in RTU	
8	2.7 Input DC Power Supply	265	Station DC supply available is 110V DC/220V DC, Bider to install appropriate Converter/Inverter to convert this voltage level to 48V DC. The RTU will be powered from a 48 V DC power supply system	1. Please clarify and confirm the need of DCPS system if power supply requirement of RTU has to be met by convertors/invertors.	Available DC supply at station is 110VDC, Required Converter/Inverter in RTU panel to accept 110VDC station supply for RTU & communication equipments is in bidders scope. DCPS are considered for same reason.	
	BOQ/PS line item no. H3	430	48 VDC Power supply Qty : 74			
9	3.1 LOCAL DATA MONITORING SYSTEM (LDMS)	266	The LDMS is a client workstation of main SCADA/ DMS control centre connected on 2Mbps or 64kbps leased line for local monitoring of SCADA/DMS system . The hardware & software specification, features shall be same as of remote VDU defined for SCADA/DMS system.	1. Please clarify how LDMS and RTU data shall report to control center if there is no gateway requirement mentioned at RTU end in BOQ/Price Schedule. 2. The communication requirement mentioned under Price Schedule/BOQ for RTU is 100Mbps. Please clarify and confm the requirements. 3. As per item nio E at page no.429 of RFP under communication system , MPLS link for RTU is 100 Mbps. We understand that out of 100Mbps , 2 Mbps shall be reserved for LDMS system. Please confirm our understanding. 4. If LDMS system is on a separate communication link, we request you to specify the same a separate line item under price schedule and BOQ.	1. Communication Gateway is considered in revised BOQ same will be provided through corrigendum 2, 3- Revised BOQ will be released through corrigendum 4. It will use same communication link	Page Number 72- Revised BOQ

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10	3.1 LOCAL DATA MONITORING SYSTEM (LDMS)	266	Bidder shall provide Local alarm annunciation through hooter for substation alarm with facility of acknowledgement button and time based auto-reset at substation.	We request you to specify the quantity of such hooters under Price schedule and Bill of quantity if the same is required.	Quantity is 1 at each RSS	
11	Typical IO counts	266	3.3 TYPICAL ANALOG & DIGITAL INPUTS/OUTPUTS CONFIGURATION FOR NUMERICAL RELAYS / AVRS/ RTUs	Typical IO counts gives an idea of the signal type / feeder but not the total quantity and type of Ios per sub-station. We request you to provide the IO count size and type of all RTU and FRTU locations. For the purpose of bidding quantity may be fixed by BEST and unit rate of IO card may be taken from bidders for each involved modules for any additional/deletion purpose during execution.	Page Number 61- Under System Sizing	Page Number 61- Under System Sizing
12	BOQ, E1 : RTU	427	No quantity of Router/Gateway for RTU/LDMS communication	We request you to quantify the same under Price schedule and BOQ as without this item FRTU will not communicate to control center. Also, please provide the technical specifications of the same.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
13	FRTU , Clause 2, General		Further, the equipments indicated in the MoP order no 12/34/2020-T&R dtd 08.06.21 & CEA /PLG/R&D/MII/2021 dtd 11.6.21 and any amendment from time to time shall be adhered to.	Please provide the copy of order.	Order copy is already attached in RFP document page no 66 , remaining order copies will be provided through corrigendum	Updated in Corrigendum
14	2.3 Communication ports under FRTU	278	Support for IEC 62056 protocols /IEC61850 /protocols & ability to act as a gateway for Numerical relays/ Smart Meters may have to be interfaced.	As numerical are not interfaced with FRTUs which has to capture data from RMU/Sectionalizer/AR etc. so this protocol requirement is not needed as it will become a RTU only which shall add to the cost without its utilization. We request you to confirm your requirements.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
15	2.7.3 Local/Remote selector switch 2.7.4 Dummy breaker latching relay	282	2.7.3 Local/Remote selector switch 2.7.4 Dummy breaker latching relay	We request you to quantify the same under Price schedule and BOQ as done for RTU.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
16	The FRTU shall comply to IEC62351-3/ IEC62443 standard for cyber security	278	The FRTU shall comply to IEC62351-3/ IEC62443 standard for cyber security	Please reconfirm this requirement as it will add to cost only.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
17	2.3 Communication ports	279	f)Support for IEC 62056 protocols /IEC61850 /protocols & ability to act as a gateway for Numerical relays/ Smart Meters may have to be interfaced. g) SSL/VPN ,NERC/CIP complaint	These requirements are for RTU usually. Please reconfirm your requirement.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
18	2.3 Communication ports	279	h) Ability to communicate over dual SIM	This feature will add to the cost. Please reconfirm whether single or dual sim is required.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	
19	2.11 Input DC Power Supply	283	The FRTU will be powered from a 48 V DC power supply system.	Although 48VDCPS system has been asked under BOQ/Price schedule but usually 24 VDC Power supply is available under RMU/FPI etc for powering up FRTU so instead of just 48VDC, we request you for acceptance of 24VDC operated FRTU also. We understand that a bidder is free to design his solution to place FRTU under RMU and take Power from RMU itself. Please confirm our understanding.	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
20	2.13 : FRTU Size and Expandability		FRTU shall be equipped for the point counts defined in the BOQ (Basic+20% spare (wired & hardware).	Please provide the point count of FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU	Page Number 13 -TECHNICAL REQUIREMENTS OF FRTU
21	SECTION 3 CHAPTER-3		3.0 Transducer & Weather Sensor Requirements:All transducers including weather sensor shall use a 48 Vdc auxiliary power supply as provided for the RTU/FRTU.	Weather Sensors requirement not found in BOQ/Price Schedule. Please include the quantity if needed to be supplied by bidder.	Not required	
22	3.4. Modems	289	Various types of modem specification : GPRS/4G/5G/GSM/CDMA etc.	We request you to provide modem specifications in line with the communication medium envisaged under BOQ	Modem Specifications will be provided through corrigendum	Page Number 22- Modem Specification
23	4.0 General (Pwr. Supply)	298	however, batteries shall have a minimum expected operating life of 5 years under normal operating conditions or 1200 charge/discharge cycles (whichever is earlier).	VRLA batteries asked to be supplied do not have life of 5 years. We understand that bidder is required to replace the batteries during FMS period if needed.Please confirm our understanding.	Yes	
24	51.2 Circuit Breakers	341	51.2 Circuit Breakers	We request you to specify the quantity required.	This is not in ADMS RFP scope. This is included in System strengthening project	
25	5.15 Numerical relays /BCPU	343	5.15 Numerical relays /BCPU	We request you to specify the quantity required.	This is not in ADMS RFP scope. This is included in System strengthening project	

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26	5.18 Integration of existing eFPI with ADMS	345	1. Bidder should give solution based on GPRS for integration of eFPI signal from existing eFPI devices installed at non-Automated stations. Solution should have following features 2. There shall be provision of two (2) number of Digital input and two (2) number of digital output in offered device	We understand that GPRS modems are required for FPI locations and the GPRS modems should have capability to take 2 nos. of DI and 2 nos of DO. Please confirm our understanding. We request you to provide a breakup of Modems required for RMU locations and FPI locations as at RMU location there will be FRTU for DI/DO .	1.Proposed device should be integrated on standard SCADA protocol 104 2. 870 are FRTU locations and 1900 are eFPI integration	
27	5.18 Integration of existing eFPI with ADMS	345	5. There shall be provision of 48 hours battery backup	GPRS Modems do not come with 48 VDC battery backup. BEST shall have to make arrangement for providing 48DCPS system with battery backup arrangements. Please specify 48VDC requirement for FPI under BOQ/Price schedule.	Bidder has to supply suitable charger and battery for integration of eFPI	
28	5.6 RMU Characteristics	336	As a minimum, the RMUs shall be equipped with on-load break switches and a fault passage indicator (FPI) , circuit breakers, and self-powered numerical relays	1. We understand that FPI has to be supplied inbuilt under RMU whose qty. is 118 but FPI quantity shall remain limited to 1900. Please confirm and also please provide the specification of FPI and controller. 2. Please provide the breakup of RMUs with FPI and standalone FPIs (if any) to be supplied . 3. We understand that there are 3 way and 5 way RMUs and FPI will be mounted within RMU panel limited 1900 quantity. Kindly specify the quantity of 3 way / 5 way RMU.	This is not in ADMS RFP scope. This is included in System strengthening project	
	BOQ, SCADA Enables	431	J1: RMU qty: 118 and FPI Qty : 1900			
29	4.3 and 4.4 BOQ: H3,H4,H5	310 321	4.3 DC Power System 4.4. Battery requirements	1. Please confirm the Telecom equipment's Load current in Amp @ 48V DC 2. Please confirm the Battery Backup for DCPS Battery to calculate the sizing of Battery	1.Bidder to calculate this load as per proposed devices for telecommunication equipments 2. 110V DC is available only at RSS, bidder to consider charger and battery to powerup FRTU/eFPI integration device at DSS	
30	TECHNICAL REQUIREMENTS OF RTU : Clause 1 i.e. General	247	General query on OEM of RTU/Numerical Relays/CRP Panel	We understand that a bidder has to be manufacturer of RTUs , Numerical Relays and Control & Relay Panel. Please confirm our understanding.	As per specified in RFP	
31	TECHNICAL REQUIREMENTS OF RTU : Clause 1.1	247	1.1 The proposed RTU shall be suitable for decentralized and centralized architecture to address the requirement of present and future.	Our understanding of your requirements is as follows. : The proposed RTU shall be suitable for decentralized and centralized architecture to address the requirement of present and future. The RTU CPU and Chassis shall be truly industrial grade design without any rotating parts. The CPU shall be minimum 1,3 GHZ dual core with 8 GB RAM and 16 GB SSD however industrial grade PC based RTU chassis shall not be acceptable. Request to confirm.	As specified in RFP page 247, 1.2- The proposed RTU, I/O and Interfacing modules shall be of the same family of RTU or Embedded , industrial grade system with high availability & reliability. RTU hardware shall be easily scalable for expansion and to integrate IEDs in future on open protocols. Any type of PC/computer based RTU is not accepted	
32	TECHNICAL REQUIREMENTS OF RTU : Clause 1.6	247	1.6 The RTU shall have min 5,000 I/O tags and shall support integration of at least 40 IEDs on IEC 61850 and at least 25 IEDs on serial protocols. Bidder to consider the hardware such as I/O peripheral, Serial Ports, Communication processors, Converters etc., in the RTU accordingly.	Our understanding of your requirements is as follows. : The RTU shall have min 10,000 I/O tags and shall support integration of at least 40 IEDs on IEC 61850 and at least 20 IEDs on serial protocols. Bidder to consider the hardware such as I/O peripheral, Serial Ports, Communication processors, Converters etc., in the RTU accordingly. Request to confirm.	Comply as specified in RFP	
33	TECHNICAL REQUIREMENTS OF RTU : Clause 1.7	247-48	The proposed RTU shall communicate simultaneous with four independent remote master (redundant) stations on IEC 60870-5-104 Protocol.	Our understanding of your requirement is as follows.: The proposed RTU shall communicate simultaneous with four independent remote master (redundant) stations on IEC 60870-5-104 Protocol. Request to confirm.	The proposed RTU shall communicate simultaneous with four independent remote master (redundant) stations on IEC 60870-5-104 Protocol. There should be provision of eight IP entry	
34	TECHNICAL REQUIREMENTS OF RTU : Clause 1.9	248	1.9 The RTU shall be 19" Rack mounted / Din Rail Mounted.	Our understanding of your requirement is as follows: The RTU shall be 19" Rack mounted / Din Rail Mounted. The RTU hardware shall also support following specifications. • The chassis shall support 24/48 VDC power supply input. • Operating Temperature: -40°C~70°C continuous run • Ingress Protection (IEC 60529): IP40 • HW Compliance: IEC-61850-3 1.10 Automatic archival of the Disturbance and fault record over IEC 61850 or FTP/SFTP from the numerical relays and shall have facility to push the same to the control center. Request to confirm.	Comply as specified in RFP	
35	TECHNICAL REQUIREMENTS OF RTU : Clause 1.15	248	RTU shall support SNMP protocol for device monitoring and management from Purchaser's Network Management System	Our understanding of your requirement is as follows: RTU shall support SNMP protocol in client mode to collect the information from the network switches and forward the same to the control center on IEC 60870-5-104 protocol. Request to confirm	Comply as specified in RFP	

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36	TECHNICAL REQUIREMENTS OF RTU : Clause 1.42.c	252	c. All actions/modifications/deletions shall be logged in the RTU. These logs shall be pushed to Purchaser's Central Asset Management system/SOC.	We understand that this is not the specifications of RTU but of SCADA/DMS software so it will get deleted from RTU specifications. Please confirm our understanding.	Comply as specified in RFP	
37	TECHNICAL REQUIREMENTS OF RTU : Clause 1.42.f	252	f. RTU shall be NERC-CIP/NIST 7628, IEC62351, IEC 62443 and IEEE 1686 compliant	We understand that RTU has to be minimum NERC-CIP/NIST 7628 compliant. Request to confirm our understanding.	Certification can be obtained from Govt of India/NABL/International accredited Labs also RTU has to comply MoP order no 12/34/2020-T&R dated 24th December 2021	
38	TECHNICAL REQUIREMENTS OF RTU : Clause 1.44.12	253	1.44.12 Bidder to note that, distributed configuration is not envisaged at RTU and at Interface System/Module level. The proposed Remote I/O or interface module configuration shall be part of the Main and Standby RTU, no separate configuration is envisaged at I/O interface System/Module level.	We understand that this clause stands deleted as centralized is required. Please confirm our understanding	Comply as specified in RFP	
39	TECHNICAL REQUIREMENTS OF RTU : Clause 1.44.15	253	SNMP protocol support required in RTU shall also be extended to I/O interface level.	Since IO interface is a physical interface are non intelligent item so we understand that SNMP protocol support is required at RTU level only. Please confirm our understanding and delete this clause accordingly.	Agreed.	
1	Clause no. 1.3.3	94	Facilities management services (FMS) for maintaining infrastructure, activities for creation/ modification /deletion of database / display, reports , GIS data maintenance and activities related to additional RTU/FRTU/ and enablers etc. procured by utility to cater growth of electrical distribution network of Go-Live / S.A.T only but bids will be evaluated considering 7 years of FMS	Request to consider FMS commencement on OA of region/ Area wise. Complete SCADA/ DMS system involves multiple stakeholder engagements resulting in FMS contract commencement	Yes, FMS period of 7 years will cover the scope of ADMS bidder's scope	
2	Clause no. 1.3.3	95	The Scope of Work shall include the software and hardware maintenance support to be provided by the Contractor in respect of the system supplied including interim audit in case of major change and regular annual Cyber security audit by CERT.IN empaneled agency or any agencies notified by MoP/Gol /Nodal agency under this project during 7 year Facility Management Services (FMS) period along with Supervision & Operationalizing 7 year warranty of the SCADA,DMS,RTDAS System and communication network after the Operational Acceptance of the same.	We understand that any change (minor/major) defined by Auditor which needs any supply of hardware or software or third party services is excluded from contractor scope of work and our scope shall be limited to our deployed manpower services only. Please confirm our understanding.	Comply as specified in RFP	
3	FMS, Clause 2.1	382	Contractor shall also carry out routine works like database building/ modification, report creation/ modification, addition of analog, status points, control points and testing from field and other such day-to-day operational activity in presence, knowledge and concurrence of utility representatives. The information of modifications shall be documented by contractor and utility. Further, supply of quantity of RTU/FRTUs beyond mentioned in the contract shall be responsibility of utility. In case RTU/FRTUs and associated components are added for further growth in the network during FMS period and are part of supply by SIA only (as per same unit rate of the contract for implementation and 7 Years of FMS period, then SIA shall also responsible erection , commissioning of the same). Otherwise, the responsibility of SIA will be limited to control center activities data base population, mimic, report generation /modificationincluding end to end testin	We understand that contractor obligation is limited to GE manpower services at control center and any new addition of hardware like RTU/ FRTU/other items shall be handled separately under variation order provisions under the contract. Please confirm our understanding.	Comply as specified in RFP	
4	Hours of cover: clause 2.1.1	383	The Contractor's on-site support standard hours of service the timings for Emergency Software Support would be 24 hours a day, 7 days a week throughout the year (i . e . 24x365). At least three Engineers including Site Manager along with one on-site support personnel for Hardware and one on-site personnel for Software shall be deployed at each control center and at least one field engineer per district in case of Group B & C. towns and one field engineer each for Group A town	We understand minimum manpower requirement as follows: 1. Control center (Main and Backup and DR Center) : 2 Engineers (one hardware and one software) 2. Field Engineer (for RTUs/FRTUs)/district/town : 1 no. We request to confirm our understanding.	Comply as specified in RFP	
5	Service delivery management, Clause no. 2.1.2.1	384	b. Install, Moves, Adds, Changes (IMAC) Services iii. Add: Installation of additional hardware /software after initial delivery iv. Change: Upgrade to or modification of existing hardware or software on desktop/workstations and servers etc.	We request to please exclude any addition or Upgrade of Hardware/ Software/ Licenses from FMS. Any addition/ upgrade needs to be additionally ordered by respective Utility to SIA	Comply as specified in RFP	

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6	Restoration of Control Centre in case of Failure , clause no. 2.1.2.1	387/ 388	The FMS Contractor shall ensure that all the relevant data is transferred from control center at regular frequency to Data Recovery Centre (DR) which is required for restoration of Control Centre in case of complete failure of Control center. In case of catastrophe / damage of ZSCC control center including force majeure conditions , FMS Contractor shall carry out system build in order to build the SCADA/DMS system at Control center from scratch from software licenses of control center data stored at DR Centre . However, in such condition where damage of control center is not attributed to SIA , the development will be done on hardware procured by utility . In case the damage is attributed due to SIA , SIA shall be liable provide control center hardware The same applies to damage of Disaster Recovery center / SDCC in case Group A towns	We request for any damage even due to Force Majeure, Sub-contractor shall be paid separately to re-build the SCADA/ DMS system. Contrcator shall not be liable for any damage to Hardwrae.Please confirm our understandng.	Bidder to Comply Force Majeure Terms and Conditions mentioned in RFP.	
7	FMS, Clause no. 2.7.1	395	Availability computation for SCADA-DMS-OMS System In case of cyber-attack incident which is not neutralized by cyber security and affected the system, the availability shall be considered nil	We request to please modify this clause as Cyber Attack can happen due to multiple reasons that are not at all times been attributable to Contractor. Availability shall be considered as NIL if Any Cyber Security attack incident happened due to Contractor Service Lapses.	Comply as specified in RFP	
8	FMS, clause no. 2.7.2	395	Payment of maintenance charges (based on SCADA-DMS -OMS System availability) In the event of availability below a certain level, the maintenance charges would be proportionately reduced as follows: For overall system availability	We request to please define the Payment of FMS charges based on following bifurcations also: (i) CC Hardware (ii) Software (iii) Field devices availability not to be considered	Payments Terms will be same as mentioned in RFP.	
9	Clause no. 2.8.2	395	Contractor obligations Any modification of software/Operating System required to restore functionality due to hardware upgrades, patches, or arising out of a necessity to fix FPRs, would be done by the Contractor at no extra cost to Utility . Also, any software updates/upgrades released till the completion of warranty period /AMC shall be provided and installed & commissioned free of cost as per instructions from Utility.	Contractor shall provide incremental Updates for its own Proprietary Software and 3rd Party Solutions. Any UPGRADE shall be excluded from Contractor scope In case of any technology shift, UPGRADE are the responsibility of Customer. Please confirm our understandinhg on above	Comply as specified in RFP	
1	33. Margin of Preference	29	PREFERENCE TO MAKE IN INDIA AND GRANTING OF PURCHASE PREFERENCE TO LOCAL SUPPLIERS. : Purchase preference shall be given to local suppliers as per methodology specified in Annexure-II to Bid Data Sheet.	1. We request you to provide the evaluation/deriving methodology of local content under " Make in India guidelines" especially w.r.t. a) %age of local supply of overall contract value b) % of local content under individual products (if any). 2. Please provide Annexure-II to Bid Data Sheet / specify the page no. of thE same under RFP. 3. Please provide Annexure-I to Bid Data Sheet / specify the page no. of thE same under RFP. 4. Please provide following documents. a) Order in respect of Power Sector on 28.7.2020. b) DPIIT Notification No.P-45021/2/2017-PP (BE-II) dated 4th June, 2020	Letter Attached	Page Number 91 Integrity Pact Attached. Page Number 98 Make in India(Along with Officer Orders)
ITB 33.1	37	1. PREFERENCE TO MAKE IN INDIA AND GRANTING OF PURCHASE PREFERENCE TO LOCAL SUPPLIERS. : Purchase preference shall be given to local suppliers as per methodology specified in Annexure-I to Bid Data Sheet. (Refer Annexure-I to BDS)				
C 2.12:	65	PREFERENCE TO MAKE IN INDIA AND GRANTING OF PURCHASE PREFERENCE TO LOCAL SUPPLIERS. Refer Annexure-II to BDS				
1.3.2 Make in India	93	Keeping in view the aims and objectives of Atma Nirbhar Bharat Abhiyan, Ministry of Power has issued Public Procurement (Preference to Make in India) for Purchase Preference (linked with local content) Order in respect of Power Sector on 28.7.2020. This order is in line with the DPIIT Notification No.P-45021/2/2017-PP (BE-II) dated 4th June, 2020. This order along-with amendments, if any, from time to time, shall be followed by the DISCOMs and bidder in the implementation of the scheme.				

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2	a) Performance Bank Guarantee : Tender Information + GCC 13.2, 13.3 & SCC 13 b) GCC Clause no. 29.1 : Limitation of Liability		"The PBG shall be forfeited as follows without prejudice to the Bidder being liable for any further consequential loss or damage incurred to RECPDCL: a) Hundred percent (100%) PBG amount furnished, if the Successful Bidder fails to submit deliverables as per scope of work and to the satisfaction of RECPDCL b) Hundred percent (100%) PBG amount furnished, if all-inclusive work are not carried out as specified in the tender document for successful completion of the assignment. c) In all the above cases corresponding <u>uncompleted work shall stand canceled..</u> " 29.1 Except in cases of gross negligence or willful misconduct : (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer	We understand that PBG can be forfeited for any other reason but not for the reasons of consequential loss or damage as per clause no. 29.1 . Request to confirm.	Comply as specified in RFP	
3	Payment Terms	457	1. 10% of total value of contract as (excluding FMS and Bandwidth Charges) "Mobilization Advance" after signing the contract and submission of necessary Bank Guarantee for the 110% of Initial Advance (Interest bearing)	1. An interest bearing advance (at any Rate of Interest) is equivalent to loan and the same cannot be termed as advance. 2. We request for release of advance as interest free advance. 3. If a bidder do not opt for advance, we understand that 10% advance amount shall be released in next milestone i.e. approval of engineering documents I. Please confirm our understanding / at what stage 10% amount shall be released.	Comply as specified in RFP	
4	Payment Terms	457	Spares and Test Equipment : 65% after receipt of material at site 25% on OA Software payment: 10% against FDS approval, 10% against FAT,20% after ETE,25% after Field performance test,25% on OA Hardware payment: 10% against FDS approval, 30% against receipt of material at site,25% after Field performance test,25% after OA DR payment : 50% after completion of OAt for any project area . 50% after completion of OA for other project areas	1. Payment terms are designed with an objective of smooth execution of project by bidder/their sub-contractors and sustainability of bidder's business so that purchaser's objective can be met smoothly by bidders. This concept has been followed only for Spares & Test Equipments under this tender. 2. We therefore request release of Supply portion payments of MCC/BCC/DR in line with payment terms of Spares and Test equipments i.e. - 10% interest free advance against Advance Bank Guarantee or 10% against FDS approval - 65% after receipt of material at site 3. 10% after completion of End to End Test 4. 10% after completion of Site Acceptance Test 5. 5% after Operational Acceptance	Comply as per payment scheduled as specified in RFP.	
5	Payment Terms	457	Bandwidth: Based on actual claim and verification by the utility	1. Based on date of commissioning of each link on monthly/quarterly basis as per unit rates provided in the price schedule.	Each bandwidth charges are included in Bidders scope and payment schedule shall prevail as specified in RFP.	
6	GCC Clause 26	447	Liquidated damages and penalty	We understand that Liquidated damages shall be the sole remedy for delivery and it's related services issues. Please confirm.	Comply as per RFP.	
7	GCC Clause 12	439	Terms of Payment	In case of payments are delayed beyond 30 days from the date of invocie, we understand that an interest shall be paid by purchaser @ 12% or @ bank rate interest of SBI / any other nationalized bank.Please clarify.	No, Comply as per RFP	
8	GCC Clause 35	452	35.1 The Contractor shall not, without the express prior written consent of the Employer, assign to any third party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.	Assignment shall be applicable to both parties i.e. "Either party shall not assign the Contract or any part of his obligations under the Contract without the prior written consent of the other party (Which shall not be unreasonably withheld). Please confirm.	Comply as per RFP.	
9	Suspension " No clause in RFP		Suspension rights to contractor	Contractor shall be entitled for any and/or all cost incurred due to Suspension by Employer. Contractor should be entitled to suspend the works in following 1. Payment is delayed for more than 45 days from date of Invoice. 2. Input form Engineer is delayed >30 days	Comply as per RFP.	
10	GCC Clause 34	450	Termination by convenience	In the event of Termination by Customer for the reason not attriutable to contractor, all direct & indirect cost shall be considered for payment to Contractor.	Comply as per RFP T &C.	

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11	GCC Clause 39		Environmental, Health & Safety	We understand that contractor is not responsible for Customer's pre-existing contamination or for disposing of any hazardous materials or regulated waste, even if generated by contractor . Also contractor is not responsible for abating or handling asbestos, lead, arsenic, PCBs, Mercury etc. Please confirm	Comply as per RFP.	
12	Delay & Extra Cost : No clause in RFP		Delay & Extra Cost	In case of any delays not attributable to Contractor, the Contractor shall be 1. Paid the amount payable to them in case the work would have been completed. 2. Any or all additional cost incurred by Contractor. 3. Suitable Time Extension without levying LD should be made available to Contractor.	Comply as per RFP.	
13	Use of System/Part of System : No clause in RFP		Purchaser can start operating the system even before it is accepted by Purchaser.	Our understanding : The Customer shall not use any part of the Works (other than as a temporary measure which is either specified in the Contract or agreed by both Parties) unless and until the Customer has issued a Taking-Over Certificate for this part. However, if the Customer does use any part of the Works before the Taking-Over Certificate is issued: (a) the part which is used shall be deemed to have been taken over as from the date on which it is used, (b) the Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Customer , and (c) if requested by the Contractor, the Customer shall issue a Taking-Over Certificate for this part.	Discussed with BEST and it is said that issuing commands to the system will be used only after End to end Test. However the system can be used for viewing as performance test even before end to end testing. The acceptance will be considered only after end to end testing is done.	
14	Extension of Time		Extension of Time (EOT)	Bidder should be entitled for EOT & associated cost for all the reasons attributable to Customer, Force Majeure, Suspension by Customer etc. Please confirm.	Comply as per RFP.	
15	Transfer of title		Transfer of title	Transfer of title shall be from the date of delivery. Please confirm	Comply as per RFP.	
16	GCC 30	449	Change in Laws	Please add" Any associated cost impact shall be borne by BEST".	Please specify the term associated cost "	
17	Price Variation Clause		Not defined for FMS or after operational acceptance.	1. A bidder can maintain the same price level upto operation acceptance but bidder cannot give the same prices after Operation acceptance even for permissible variation quantity in the contract due to various factors. Please confirm that bidder has right to give a different price after operational acceptance of system for additional quantities. 2. A bidder should be allowed to submit different price for each year of FMS which has been disallowed in the price schedule/RFP. If an averaged out price of FMS is submitted then from eight year onward, bidder will be not able to recover even cost of FMS for eight year. Please accept our request .	Payments Terms will be same as mentioned in RFP.	
18	GCC 31	449	Force Majeure	Please add "Pandemic and Lockdown" under this clause.	Shall be considered under Force Majeure(Pandemic part already considered in Force Majeure)	
19	SCC 5.1		Governing Laws	Governing Law is Law of India.High Court of Mumbai shall have jurisdiction	Governing Law is Law of India.High Court of Mumbai	
1	Price Schedule	76	Price Schedule	No quantity has been found mentioned under Form F2. We request you to provide the quantity aligned with Bill of quantity provided under Section 9 at page no. 424.	Price Bid Attached with Corrigendum .(Excel attached).	Price Bid Attached with Corrigendum .(Excel attached).
2	Price schedule, Specific exclusions	76	- Land, control center,-----including earthing - Furniture required for SCADA/DMS and SCADA system	We understand that earthing of CC/Sub-Station and furniture for control center equipments is under purchaser scope. Please confirm our understanding.	Furniture will be in the scope of Utility.	
3			Air conditioning, DG set	We understand that Airconditioning and DG set are excluded from bidder's scope but the same has been found under bidder's scope under Section V i.e. under IT Racks (Section VI) at page no .365. Request to clarify the scope.	DG set not in the scope of bidder, same will be conveyed through corrigendum	Page Number 72- Revised BOQ

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
4	Price scheduel, Form C2	77	GIS Adaptor/Engine for Importing Data from GIS System under IT System.Intgration with ERP And AMI	1. Please clarify whether GIS is existing or nor importing the data from GIS system 2. Please clarify the scope of IT system integration and it has been supplied by whom. 3. Please clarify the scope of ERP system integration and it has been supplied by whom. 4. Please clarify the scope of AMI system integration and it has been supplied by whom.	Detailed integration scope will be provided through corrigendum	Page Number 72- Revised BOQ Page Number 44- INTRODUCTION & GENERAL INFORMATION
5	Price scheduel, Form C2	77	Field Force Automation Hardware Cost(Mobile Server,Mobile Devices,OS License,Data Base License)	1. Please provide the specifications of Field Force Automation hardware and quantity of each item. 2. Please include the quantity of communcation link under communication portion of BOQ and Price schedule	FFA Specification will be added in Corrigendum.	Page Number 150- Field Force Automation Requirement
6	Price scheduel, Form C2	78	San Switch and San Storage	Please specify the size of SAN storage	Page Number 85- San Switch and San Storage Specification	Page Number 85- San Switch and San Storage Specification
7	Price scheduel, Form C2	78	Layer II switch (Planning & Development system LAN)	Please specify the nos. of ports required as specified for SCADA LAN	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
8	Price scheduel, Form E1: RTU	80	RTU base equipment comprising panels, racks, sub-racks, Power Supply modules, CPU, interfacing equipment, required converters & all other required items/accessories including complete wiring for all modules for locations mentioned at Vol Vi	Please provide the page no, of volume VI as the same could not be found under RFP. Please provide the address of these locations as the same is required by N/W service provider for their cost assessment	All locations are across mumbai	
9	Price scheduel, Form E1: RTU	80	Transformer Transducers	Please provide the specifications of Transformer Transducers.	This is not in ADMS RFP scope. This is included in System strengthening project	
10	Price scheduel, Form F1: FRTU	80	Mini pole mounted FRTU base equipment along with enclosure suitable to work in open environment (Adequate protection from water & dust) , racks, sub-racks, Power Supply modules with power backup , I/o modules, CPU, interfacing equipment, required converters & all other required items/accessories including complete wiring for all modules for locations mentioned at Vol Vi.	Please provide the page no, of volume VI as the same could not be found under RFP. Please provide the address of these locations as the same is required by N/W service provider for their cost assessment	All locations are across mumbai	
11	Price scheduel, Form 6:- Communication System:	81	Annual charges for 100MBps Links with RTUs	Please reconfirm the bandwidth requirement for RTU	Included in Revised BOQ , same will br provided through corrigendum	Page Number 72- Revised BOQ
12	Price scheduel, Form 6:- Communication System:	82	Annual charges for 2MBps Links with FRTUs /FPI	Please reconfirm the bandwidth requirement for FRTU	Included in Revised BOQ , same will br provided through corrigendum	Page Number 72- Revised BOQ
13	Price scheduel, Form H3	82	DC Power Supply (DCPS) system based on SMPS	We understand that batteries shall be provided by Purchaser for DCPS. Please confirm. If the same is in bidder's scope, please specify the quantity with backu time requirements	110V DC is available only at RSS, bidder to consider charger and battery to powerup FRTU/eFPI integration device at DSS	
14	Price scheduel, Form H5	82	UPS (2 kVA)	We understand that 2KVA UPS/UPS supply for LDMS PC shall be provided by purchaser. Please confirm. If the same is in bidder's scope, please mention the quantity of same in price schedule and BOQ.	LDMS machine should have Dual power supply, machine should take 110VDC power supply available at RSS	
15	Price scheduel, Form J1	83	RMU	Please specify the type and quantity of RMU required for each type	This is not in ADMS RFP scope. This is included in System strengthening project	
16	Price scheduel, Form J5	83	Numerical Relays,BCPU, Cable	Please specify the type and quantity of Numerical relays if under scope of supply	This is not in ADMS RFP scope. This is included in System strengthening project	
17	Price scheduel, Form F10	84	Note : Cost of FMS for seven years shall not be less than 35% of total project and unit rate shall be same Cost of FMS for overall cost of system availability shall not be less than 40% or more than 60%	1. We suggest BEST takes offer without FMS charges and gives a PO of 35% for FMS of the contract value. A bidder gives a competitive price to win the project and with any such %age ceiling a bidder may lose the order e.g. bidder keeps less/no margin under FMS to make his bid competitive. With this philoshophy of 35% he can lose the bid despite of being L1 in execution portion. 2. We request for removal for both the clauses.	Comply as per RFP.	
18	5.10 Certain criteria for Hardware /Configuration	215.216	1,2,3 4. Workstation: 1 PER 20 S/S OR 3 WHICHEVER IS HIGHER 1 PER 100 FRTU locations OR 2 WHICHEVER 5. Remote VDUs shall be required at one each at Circle, Division, Sub-division office, HQ (Common for all towns) , control center in-charge.	These requirements are interna to BEST and has to be assessed by BEST themselves and data has to be provided in the BO1/Price Schedule accordingly. We understand that BEST has mapped their requirements and provided the data accordingly in Price Schedule and BOQ. Please confirm.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
19	Qualifying Requirement/ Eligibility criteria -(I)Financial	38	Average Annual financial turnover during the last 3 years, ending 31stMarch of the previous financial year, should be at least 30% of the estimated cost (Rs.50Cr). (Proof: Annual Audited Financial Statements for FY 18-19, FY 19-20 & FY 20-21. shall be submitted)	Please clarify 50Cr mentioned here is the estimated cost.	Average Annual financial turnover during the last 3 years, ending 31stMarch of the previous financial year, should be at least Rs.50Cr.	
20	Qualifying Requirement/ Eligibility criteria -(II)Technical	38	The bidder shall provide evidence of previous experience in the design, engineering, supply, installation, testing and commissioning of atleast two SCADA & DMS (Supervisory Control and Data Acquisition System & Distribution Management System Projects for POWER DISTRIBUTION (11KV or above) in the last seven (7) years meeting the following:- A. The above project(s) should consist of atleast 20 RTUs/Data Concentrator (DC)/ Bay controller Unit (BCU) and 100 FRTUs. The SCADA & DMS System should have atleast the following functions either in a single or combination of above projects: (a)SCADA Software supporting alarm, tagging, trending, SOE, real time data acquisition & calculations. (b)DMS or OMS Software. (c)Software functional redundancy for SCADA and DMS functions. (d) IEC-870-5-104/101/DNP3.0/MODBUS protocol in Power Sector. (e)The technical evaluation will commence post the demonstrations.	Our company has successfully design, supply, Implemented SCADA Project(s) for power distribution (11Kv and above) in the last 7 Years. Both for Primary substations SAS IEC 61850 and their remote control over IEC 104 and Distribution Automation where 100s of FRTUs are integrated with SCADA/DMS. Our OEM partner is among top players in SCADA DMS as per Gartner Reports but is not an RTU OEM. Hence they have experience in large SCADA DMS OMS.	Comply as per RfP.	
21	PBG	3		We have seen PBG is mentioned 10% at one clause and 3% at different clause. Kindly clarify.	1. A per SCC 3% performance security of total contract value is being asked in the form of bank guarantee. 2. Submission of necessary Bank Guarantee for the 110% of Initial Advance which will be 10% of total contract value. Both these points are independent of each other.	
22	BDS, ITB 46	3		Annexure II is missing from the tender document. Please provide.	To be Removed	To be Removed
23	Risk Distribution, clause 30.	44		We understand that any new tax imposition of Govt will have subsequent impact on the unexecuted portion of the contract.	It will be same as mentioned in RFP.	
24	Section- VIII- SCC, Clause 27.5 of GCC.	51		We understand that any such verification will be done at the time of delivery of product/services.	It will be same as mentioned in RFP.	
25	Document: "Summary of ADMS-BEST Mumbai" - Project Period - Page 3 of 8		I) IMPLEMENTATION SCHEDULE- Completion Schedule from the Award of Contract Phase 1 A. Installation, Testing and commissioning of servers and SCADA software-8Months B. Installation, Commissioning and Testing of RTU, FRTU and Integration of FP -12 months from award Phase 2 Installation, Testing and Commissioning of DMS & OMS System-8 months From Award Phase 3 Implementation of Field force Automation and Integration with other IT/OT System 8 months from award	The schedule is contradictory. In phase 1, SCADA to be commissioned in 8 months and Commissioning of RTU and FRTU in 12 months from date of award. Request is to let us know if SCADA will be commissioned after commissioning of RTU and FRTU or SCADA to be commissioned with existing system. Same with Phase 2 and Phase 3	Page Number 66- IMPLEMENTATION SCHEDULE	Page Number 66- IMPLEMENTATION SCHEDULE
26	Financial Qualification Requirement (i & ii of I. Financial) Section IV of SBD Page 39 of 476		QR_Financial (Both lead & Consortium partner shall meet the requirement individually)..Average Annual financial turnover during the last 3 years, ending 31stMarch of the previous financial year, should be at least 30% of the estimated cost (Rs.50Cr).	Bidder (100% subsidiary of the parent company) shall furnish the Financial Credentials of the parent company for financial qualification. Kindly confirm.	Comply as per RfP	
27	Technical Qualification Requirement (iii of II. Technical) Section IV of SBD Page 39 of 476		The bidder shall provide evidence of previous experience in the design, engineering, supply, installation, testing and commissioning of at least two SCADA & DMS (Supervisory Control and Data Acquisition System & Distribution Management System Projects for POWER DISTRIBUTION (11KV or above) in the last seven (7) years meeting the following:-	The Bidder (100% subsidiary of the parent company) shall furnish the Technical Credentials of the parent company for Technical qualification. Additionally, for projects experience in India (if required), Bidder shall submit evidence of Parent company as Consortium Partner / Technology Collaborator. Kindly confirm.	Comply as per RfP.	
28	Technical Qualification Requirement (A of iii. Technical) Section IV of SBD Page 39 of 476		The above project(s) should consist of at least 20 RTUs/Data Concentrator (DC)/ Bay controller Unit (BCU) and 100 FRTUs. The SCADA & DMS System should have at least the following functions either in a single or combination of above projects:	We understand that integration / interface of at least 20 RTUs/Data Concentrator (DC)/ Bay controller Unit (BCU) and 100 FRTUs is required for qualification. Kindly confirm.	It will be same as mentioned in RFP.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
29	Qualifying Requirement / Eligibility criteria Pg No. 40 of 476		LoA from the owners/client and ii)certificates of Acceptance/ successful completion for workdone,in support of the qualifying requirements, clearly establishing – a) the start and end date, b) operation of at least 1 year of the project, c) brief scope of work and d)cost of project, on client letterhead	Bidder shall submit the self notarized certificate as supporting documents for technical QR clearly establishing – a) the start and end date, b) operation of at least 1 year of the project, c) brief scope of work and d)cost of project, on bidder letterhead. Kindly confirm.	It will be same as mentioned in RFP.	
30	1.3.3 Broad Role Definition for SIA Pg No. 94 of 476		The SIA in coordination with utility (as per the requirement to be given in the detailed RFP shall carry out field survey, design ,engineering, supply, installation, testing & commissioning of SCADA/DMS software applications, Dispatcher Training Simulator (DTS) ,hardware (including PCs, Servers, Routers, Switches, VPS, RTU, FRTUs, Multi-function Transducers (MFTs), Communication equipment, Auxiliary power supply etc.), software (including operating system, databases, network management system etc.), network (LAN, WAN), RMUs, FPIs etc.	Kindly provide details about the existing/legacy system integration.	Existing SCADA system will be decommissioned. Integration of existing GIS system (ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1) shall be in SIA's scope. Existing/new relays integration shall be in SIA's scope. Kindly refer detailed scope of work mentioned in RFP and corrigendum.	
31	1.5 Common Disaster Replica Recovery Centre (DRR) Pg No. 140 of 476		The same shall be replica of SCADA DMS Control center for Group A and with secured permission and upon nonavailability of main SCADA/DMS Control center, the operation of that town shall be possible from DRR. However, system shall remain in sync for data on daily basis and shall be suitable interlocks to avoid any accidental command.	Kindly confirm if section 1.5-"Common Disaster Replica Recovery Centre (DRR)" is applicable for BEST current requirement as a Group A Town. REC/BEST is requested to confirm the MCC, BCC & DR locations.	MCC and BCC concept is to be adopted	
32	1.6 Data Recovery Function (DR) Pg No. 140 of 476		The DR function is a repository of system build up software of all towns Group B& Group C towns.....	Kindly confirm if section 1.6 - "Data recovery function (DR)" is not applicable for BEST current requirement.	MCC and BCC concept is to be adopted	
33	1.7. RT-DAS system Pg No. 141 of 476		The RT-DAS system shall use control center of Group B towns and shall have SCADA features except control capability.	Kindly confirm if section 1.7-"RT-DASsystem" is applicable for BEST current requirement as a Group A Town.	BEST area comes under Group A town	
34	4. Network Model Pg No. 143 of 476		An interface with the already existing Geographical Information Systems shall be developed using interoperability features between the DMS and the installed GIS.	As informed in Pre Bid Meeting dated 28 Feb 22, the GIS system is of ESRI make. REC/BEST is requested to confirm the version of the same and share the GIS sample data for POC.	ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1	
35	5.10 Certain criteria for Hardware/Configuration Pg No. 222 of 476		1. Each SCADA /DMS control center and ZSCC shall have 1 DTS at control center.	Current scope includes MCC, BCC and DR. Kindly clarify the requirement of ZSCC.	MCC and BCC. Also two more zonal control center for operation & monitoring	
36	5.10 Certain criteria for Hardware/Configuration Pg No. 223 of 476		4. Workstation	The requirement of workstation mentioned in point No.4 will be as per the BOQ. Kindly confirm.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
37	Detailed Reference to concerned Document . Please specify Document No / Clause No / Page No		Description as per Bid Document	Query / Clarification / Deviation	Technical Specification Updated in Corrigendum	Technical Specification Updated in Corrigendum
38	E1 RTUs Pg No. 444 of 476		RTU base equipment comprising panels, racks, subracks, Power Supply modules, CPU, interfacing equipment, required converters & all other required items / accessories including complete wiring for all modules for locations mentioned at Vol Vi	In the RFP, even though existing system details are provided and largely being legacy systems, we are assuming it to be a complete replace of all the existing system. BOQ asks for 74 RTU's and 870 FRTU's. Kindly confirm.	Existing SCADA system will be decommissioned and replaced with new system. Revised BOQ will be shared through corrigendum.	Page Number 47-Decommissioning of existing SCADA Spec already shared in Corrigendum
39	E2 Software for LDMS Pg No. 445 of 476		LDMS software No. 250	Kindly confirm the requirement of LDMS software count. We could see only 2 No of LDMS software requirement.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
40	Annexure-I Payment terms Pg No. 474 of 476		Payment Schedule (Software)	As supply of software will be 100% at the time of FAT and delivery, payment of supply on Pro-rata basis to be re-considered. Kindly confirm.	It will be same as mentioned in RFP.	
41	Financial Qualification Requirement	Section IV of SBD Page 39 of 476		QR_Financial (Both lead & Consortium partner shall meet the requirement individually)..Average Annual financial turnover during the last 3 years, ending 31stMarch of the previous financial year, should be at least 30% of the estimated cost (Rs.50Cr).	Since it is a MoP funded scheme, needs to follow the guidelines	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
42	Technical Qualification Requirement	Section IV of SBD Page 39 of 476		The following qualifying requirement must be met by the Lead and Consortium Partner:-	Since it is a MoP funded scheme, needs to follow the guidelines	
43	Scope of Work	Network AugmentationPage no 41 of 476		Whether Network Augmentation/addition etc. during work period has to be considered ?	Network Augmentation/addition to make SCADA ready is to be considered.	
44	Components of scada - Scope	1.3.1.1.2 Components of SCADA/DMS page no 93 of 476		Whether FPI integrations are also included in the scope ?	Yes, eFPI to be integrated through FRTU at automated DSS (870 Nos- 11KV / 415 station) and also integration of eFPI of 1900 non automated DSS is included in scope.	
45	Scope of Work -Cyber Audit	Cyber security Audit Page no 96 of 476		Cyber security audit _ Periodicity ?	Ref Page 183 and 184 Clause 4.4.1 for periodicity The cyber security same shall certified on SAT by CERT.IN empanelled agency/ NCIIPC or any GoI agency before Operational acceptance by SIA. The same shall be required to be verified at least once annually or Major upgrade or change on the system or data of validity of certification which ever earlier during the FMS period also and maintain required performance and functional requirements/SLA	
46		Scope		Supply & Commissioning of Numerical relays are out of scope, but IED integrations are in scope	Yes, all necessary services required for integration of existing relays and newly relapced relay with RTU is included in bidder scope	
47	Section IV of SBD Qualifying Requirement/Eligibility criteria	4	The above project(s) should consist of atleast 20 RTUs/Data Concentrator (DC)/ Bay controller Unit (BCU) and 100 FRTUs. The SCADA & DMS System should have atleast the following functions either in a single or combination of above projects:	1. Qualifying requirement is not in line with final SBD released by PFC in December 2021 as functionality details are not part of SBD of RDSS. We request RECPDCL to amend the qualifying requirement in line with final SBD as per RDSS scheme to provide level playing field to all bidders. 2. We request RECPDCL to kindly whether OEM experience internationally can be used against the qualifying requirement/eligibility criteria.	1) Noted, We will revise the qualifying requirement/eligibility criteria as per SBD 2) Yes, It can be used.	
48	Section IV of SBD Evaluation Methodology	5	The evaluation team will thoroughly review the proposals submitted by various bidders. The broad evaluation will be based as following: - □ Technical Proposal: 50% Weight. • Financial Proposal: 50% Weight.	1. Evaluation Methodology is not in line with final SBD released by PFC in December 2021 as evaluation is on L1 basis as per SBD of RDSS. We request RECPDCL to amend the Evaluation Methodology in line with final SBD as per RDSS scheme to provide level playing field to all bidders 2. This is MoP RDSS funded project but MoP order no A-1/2021-FSC-Part(5) dated 16th November 2021 for Purchase preference (linked to local content) in respect to Power Sector has been over looked in the tender document. We request RECPDCL to kindly include the same in the tender for the bidders and OEMs in line with MoP order and ensure compliance of the same by all Bidders/OEMs in the bid.	1) Noted, We will amend the evaluation methodology through corrigendum as per SBD. 2) Make in India is already covered in RFP	Revised Evaluation Criteria Already Uploaded through Corrigendum
49	Section IV of SBD Evaluation Methodology	7	Cyber security compliance IEC 62351 -2marks IEC 62443- 2marks	This is MoP RDSS funded project and we understand that CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24th December 2021 mentioned at Page 67 of 476, will supersede all the international cyber security compliances and certification asked for the tender document. Request RECPDCL to kindly confirm the same.	Noted, We will amend the evaluation methodology through corrigendum as per SBD.	Corrigendum already floated of Evaluation Criteria
50	Chapter-1 INTRODUCTION & GENERAL INFORMATION	25	Applicable Standards	Applicable Standards is not in line with final SBD released by PFC in December 2021. We request RECPDCL to amend the Applicable Standards in line with final SBD as per RDSS scheme to provide level playing field to all bidders	Page Number 29- GTP for FRTU	Page Number 29- GTP for FRTU
51	Chapter-1 INTRODUCTION & GENERAL INFORMATION	28	This would include seven years warranty for the related hardware & software supplied under the SCADA/DMS project	Warranty of 7 years is not in line with final SBD released by PFC in December 2021. We request RECPDCL to amend the warranty terms in line with final SBD as per RDSS scheme to provide level playing field to all bidders	Warranty shall be required for 7 years.(Refer page no. 14/354 in Model technical Spec)	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
52	Chapter-1 INTRODUCTION & GENERAL INFORMATION	36	The offered RTU shall be KEMA /DNV/ UL certified for IEC61850 ed2 , IEC 60870-5-104 ed.2 & IEC 60870-5-101 Edition 2	Since this is MoP RDSS funded project, international certification like KEMA/DNV/UL asked for in the tender is not in line with the MoP order no A-1/2021-FSC-Part(5) dated 16th November 2021 for Purchase preference (linked to local content) in respect to Power Sector , CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24th December 2021 mentioned at Page 67 of 476. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Certification can be obtained from Govt of India/NABL/International accredited Labs.	
53	Section -2, Chapter –8 Cyber Security Management System	476	Section -2, Chapter –8 Cyber Security Management System The Bidder shall certify that its systems and products have undergone cyber security testing by leading and independent government sanctioned organizations. An example of this would be the United States Department of Energy National Supervisory Control and Data Acquisition (SCADA) Test Bed program at Idaho National Laboratory (INL) and Sandia National Laboratory (http://www.inl.gov/scada).	Since this is MoP RDSS funded project, international cyber security guidelines referred like INL/SNL asked for in the tender is not in line with the CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020- T&R dated 24 th December 2021 mentioned at Page 67 of 476. We request RECPDCL to kindly amend the same in line with latest CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Noted, We will amend the Cyber Security Management System as per SBD. -	
54	Section -2, Chapter –8 Cyber Security Management System	Page 238 to 476	The Industrial Cyber security solution shall adhere and comply to IEC 62443 cyber security standards. Product manufacturing and development shall adhere and comply to IEC62443-4-2. The system integrator is responsible for the integration and commissioning of System using a process compliant with IEC 62443 2-4, IEC 62443 3- 2, IEC 62443 3-3.	Since this is MoP RDSS funded project, international cyber security guidelines referred in the tender is not in line with the CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476. We request RECPDCL to kindly amend the same in line with latest CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Compliance to IEC 62443 is as specified in SBD document Ref. page - 294 point no-40 in table List of Tests on RTU/FRTU	
55	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 256 to 476	Further , the equipment indicated in the MoP oder no 12/34/2020-T&R dtd 08.06.21 & CEA /PLG/R&D/MII/2021 dtd 11.6.21	This is MoP RDSS funded project and we understand that CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476 should be complied to by the bidders for the quoted RTUs/FRTUs at the time of submission of the bid. Request RECPDCL to kindly confirm the same	Ok	
56	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 258 to 476	High disturbance immunity, meeting the requirements of the IEC directives 89/336/EEC and 73/23/EEC when placed in cabinets.	This is MoP RDSS funded project and we understand that MoP order no A-1/2021-FSC- Part(5) dated 16 th November 2021 for Purchase preference (linked to local content) in respect to Power Sector, CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476, will supersede all the international compliances and certification asked for the tender document. Request RECPDCL to kindly confirm the same	This point is related to Electromagnetic Compatibility and voltage band, needs compliance.	
57	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 262 to 476	RTU shall be NERC-CIP/NIST 7628, IEC62351, IEC 62443 and IEEE 1686 compliant	This is MoP RDSS funded project and we understand CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476, will supersede all the international cyber security compliances and certification asked for the tender document. Request RECPDCL to kindly confirm the same	Noted, We will amend the Cyber Security Management System as per SBD.	
58	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 262 to 476	SIC panel is envisaged for data acquisition from field equipment using field interface module, which shall be interfaced with proposed RTU I/O modules seamlessly.	Since I/O Interface System/modules and other components such as Signal Interfacing Modules, Control Output Relays, Latching Relay, Terminal Blocks, Suitable Cable Ducts, wiring etc. as per the RFP requirement can be mounted within the RTU panel itself we request RECPDCL to kindly remove the requirement of the separate SIC panel.	Panel size should be large enough to cater the same.	
59	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 263 to 476	The proposed I/O interface modules shall be certified by CPRI/ERDA/International Accredited Lab.	This is MoP RDSS funded project and we understand that all the supplied equipment shall be certified by CPRI/ERDA/NABL Accredited Lab only. Kindly confirm.	Yes	
60	SECTION3 CHAPTER-1 TECHNICALREQUIREMENTS OF RTU	Page 270 to 476	The vendor should submit proof of RTU certificate (As conforming to IEC 61850, IEC 60870-5-104/101) BY KEMA.	Since this is MoP RDSS funded project, international certification like KEMA/DNV/UL asked for in the tender is not in line with the MoP order no A-1/2021-FSC-Part(5) dated 16 th November 2021 for Purchase preference (linked to local content) in respect to Power Sector. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Certification can be obtained from Govt of India/NABL/International accredited Labs. Make in India Already covered in RFP (Page no: 29, 37, 93)	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
61	SECTION3 CHAPTER-1 TECHNICAL REQUIREMENTS OF RTU	Page 270 to 476	(k) Conformance to IEC62351-3/ IEC62443 standard for cyber security	Since this is MoP RDSS funded project, international certification like KEMA/DNV/UL asked for in the tender is not in line with the CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Noted, We will amend the Cyber Security Management System as per SBD.	
62	SECTION3 CHAPTER-2 TECHNICAL REQUIREMENTS OF FRTU	Page 287 to 476	The FRTU shall comply to IEC62351-3/IEC62443 standard for cybersecurity	Since this is MoP RDSS funded project, international cyber security certification asked for in the tender is not in line with the CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Noted, We will amend the Cyber Security Management System as per SBD.	
63	SECTION3 CHAPTER-2 TECHNICAL REQUIREMENTS OF FRTU	Page 298 to 476	The modem should comply with IP55 degree of protection for FPI locations & IP41 for FRTU as the same shall be housed in the FRTU panel.	We understand that inbuilt Modems in FRTU is also acceptable. Kindly confirm.	Page Number 22- Modem Specification	
64	SECTION3, CHAPTER-5 TESTING, TRAINING & DOCUMENTATION	Page 304 to 476	Cyber security compliance certificate/document by manufacturer incl international agencies like KEMA/ TuV etc.	Since this is MoP RDSS funded project, international certification like KEMA/DNV/UL asked for in the tender is not in line with the MoP order no A-1/2021-FSC-Part(5) dated 16 th November 2021 for Purchase preference (linked to local content), CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020- T&R dated 24 th December 2021 mentioned at Page 67 of 476 in respect to Power Sector. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Noted, We will amend the Cyber Security Management System as per SBD.	
65	SECTION3, CHAPTER-5 TESTING, TRAINING & DOCUMENTATION	Page 305 to 476	40 Product cyber security compliance IEC62443/ IEC62351-3 certificate of RTU/FRTU from labs incl. international accredited labs like KEMA/TuV/ DNV etc	Since this is MoP RDSS funded project, international certification like KEMA/DNV/UL asked for in the tender is not in line with the MoP order no A-1/2021-FSC-Part(5) dated 16 th November 2021 for Purchase preference (linked to local content), CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020- T&R dated 24 th December 2021 mentioned at Page 67 of 476 in respect to Power Sector. We request RECPDCL to kindly amend the same in line with CEA and MoP guidelines to provide level playing field to all bidders/OEMs.	Noted, We will amend the Cyber Security Management System as per SBD.	
66	SECTION-5 CHAPTER-01 SCADA ENABLERS	Page 353 to 476	1. Communication and Cyber- security	Since this is MoP RDSS funded project, we understand that CEA (Cyber Security in Power Sector) Guidelines 2021 dated 07.10.2021 and MoP order no 12/34/2020-T&R dated 24 th December 2021 mentioned at Page 67 of 476 in respect to Power Sector has to be complied to at the time of bid submission. We request RECPDCL to kindly confirm the same.	Noted, We will amend the Cyber Security Management System as per SBD.	
67	SECTION 9	Page 445 to 476	Single TFT PC for LDMS- 14 Nos LDMS software- 2 Nos	We request RECPDCL to re-confirm the requirement of 14 LDMS PC and 2 nos LDMS SW against the 74 RTUs to be supplied.	We will revise the quantity of LDMS PC & SW through corrigendum.	Page Number 72- Revised BOQ
68	SECTION 9	Page 446 to 476	Contact Multiplying Relays (CMRs)- 10 nos Heavy duty relays for Control- 10 nos	We request RECPDCL to re-confirm the requirement of 10 nos CMRs and 10 nos HDRs against the 870 FRTUs to be supplied.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
69	REC_ADMS_BEST Tender_NIT	Payment Terms	10% of total value of contract as (excluding FMS and Bandwidth Charges) "Mobilization Advance" after signing the contract. The following shall be ascertained before release of payment :- • Opening of site office in project area • Submission of necessary Bank Guarantee for the 110% of Initial Advance (Interest bearing) • Submission of the necessary Contract Performance Bank Guarantee. The same will be released on completion of contract/assignment. • Submission of agreed project implementation schedule	We request you to kindly consider the advance payment as Interest free Advance instead of Interest Bearing Advance	It will be same as mentioned in the RFP.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
70	REC_ADMS_BEST Tender_NIT	Payment Terms	progressive /Milestone based payment for Each Project Area excluding DR Centre	We request you to kindly consider the proposed Payment Schedule.	It will be same as mentioned in the RFP.	
71	REC_ADMS_BEST Tender_NIT	Clause 34.1.a.1 Termination for Default	(a) The Purchaser may, without prejudice to any other remedy for breach of Contract, by Notice of default sent to the Supplier, terminate the Contract in whole or in part: i. if the Supplier fails to deliver any or all of the Goods or Related Services within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 32; or	Request you to consider the following: In the event of delay from Contractor, request Customer to first exercise Liquidated Damages & Penalty clause. In case, if there is further delay resulting in breach of maximum LD cap then Customer can exercise any other right as specified in this Contract.	It will be same as mentioned in the RFP.	
72		New Recommendation - Deemed Acceptance	Deemed Acceptance	Request you to consider the following: No consent or acceptance or issuance of any Certificates shall be unreasonably withheld by the Customer for reasons not attributable to the Contractor. In a scenario where the consent/ acceptance/ approval/ issuance of any Certificate is not given within 30 days from the date of our intimation of readiness and/ or if the Customer takes the equipment/ work/ system into commercial use before issuing the Certificate, the same shall deemed to have been occurred, issued and accepted by the Customer. Transfer of risk shall occur upon such acceptance and the guarantee shall start from the same date, payments shall be released immediately.	It will be same as mentioned in the RFP.	
73		Form V - Labour Licence	Clarification	Request Customer to issue Form V in the name of the sub-contractor as identified by the Contractor for ETC since the relevant scope of work shall be executed by the said sub-contractor.	No such provisions are there in RFP/SBD.	
74		Divisible Contract	Clarification	In the event of award of contract, request you to: 1. Issue 2 separate Purchase Orders for the activities under defined Scope of Work i.e. a) Supply and b) Installation, Testing & Commissioning OR 2. Issue separate Price Schedules and detailed breakup for the above mentioned activities under one Purchase Order.	It will be same as mentioned in the RFP.	
75		BOCW	Clarification	If in case, BOCW is applicable then kindly let us know whether it shall be applicable on the complete order value i.e. Supply + ETC + Civil OR only on Services i.e. ETC + Civil.	As per SIA's scope of work all the taxes applicable to nature of work will be paid by SIA.	
76	REC_ADMS_BEST Tender_NIT	445		Kindly clarify if "OEM" is participating in tender as "Implementation Agency" then can following options be exercised : 1) Can OEM offer their product to EPC or multiple EPCs? 2) Can Principals of OEM creates a separate consortium with EPC? 3) Can EPC qualify with credentials of OEM as specialized sub-contractor	No	
77			Termination Rights for Contractor	The tender is silent on Termination Rights of contractor. Request you to kindly include a suitable clause which gives termination right to contractor incase of default by purchaser.	This condition is govern by condition mentioned in RFP	
78	REC_ADMS_BEST Tender_NIT	381/458	The Scope of Work shall include the software and hardware maintenance support to be provided by the Contractor in respect of the system supplied under this project during five year Facility Management Services (FMS) period along with Supervision & Operationalizing five year warranty of the SCADA/DMS System after the Operational Acceptance of the SCADA/DMS System.	Kindly confirm that warranty of the SCADA/ADMS system will be 5 years and not 7 years as per clause 1.3.11 on page 103/458	Warranty of all equipments shall be for 7 years.	
79	REC_ADMS_BEST Tender_NIT	182/458	(f) Enterprise service bus (ESB): ESB based architecture is essential to enable interaction of applications from different product manufacturer, platforms etc.	We understand that SCADA/ADMS shall support SOA based interfaces to 3rd party IT systems. However ESB shall not be part of deliverables of this project. Kindly confirm	As per RFP we seek that any third party GIS/IT system shall exchange data with SCADA system over IEC 61968-1 SOA based ESB.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
80	REC_ADMS_BEST Tender_NIT	111/458	It is also proposed to integrate ABT, HT meter data on DLMS protocol in SCADA at Control level from AMI system. The supplied SCADA system shall have capability to show the AMI data of each feeder, Transformer & other equipment's in SCADA SLD & other reports. The system shall also able to show the actual data acquired through Numerical relays & AMI system.	DLMS protocols are supported by AMI systems. Only relevant data from ABT meters shall be sent to SCADA/ADMS by the AMI systems on SOA. Kindly confirm	Any required Data has to be acquired from AMI on real time basis and shown on SCADA SLD as specified	
81	REC_ADMS_BEST Tender_NIT	424/458	Field Force Automation Hardware Cost(Mobile Server,Mobile Devices,OS License,Data Base License)	SCADA/ADMS shall integrate with customers existing Field force automation system only. Kindly confirm and remove this item from scope	Supply, installation and integration of hardware and software required for Field Force Automation is in scope of project	
82	REC_ADMS_BEST Tender_NIT	225/458	Compliance of cyber security without threatening vulnerabilities by CERT.IN empaneled agency shall be carried out.	Kindly confirm that purchaser shall hire the CERT.IN empaneled agency for audits and bidders have to only support during the audits	Complete responsibility of hiring and successful conduction of cyber security audit by CERT.IN empaneled agency is in bidder scope (ref.page 96 point no. -6)	
83	REC_ADMS_BEST Tender_NIT	424/458	The Estimated BOQ	Firewalls are mentioned twice for SCADA/DMS control center with total quantity equal to 8+4 = 12. Firewall quantities mention for DR control center are 6 Nos. These quantities are very high and we request that the bidder be allowed to optimise the quantities of all items in the BoQ as per their optimized solution	All firewall requirement at MCC and BCC are redundant mode/High availability mode. Numbers at both places are considered as (Internal - 2, External-2, MPLS connectivity - 2, IT connectivity -2) , addition 4 firewall included is 2 each for two numers of zonal control centre. Apart form BOQ qantity if any additional item is required bidder has to clarly mention	
84	REC_ADMS_BEST Tender_NIT	418/458	POWER DISTRIBUTION SYSTEM SIZING	This table is empty. Request purchaser to provide this important information	Page Number 61- Under System Sizing	Page Number 61- Under System Sizing
85	REC_ADMS_BEST Tender_NIT	96/458	The scope of integration of external systems includes, legacy SCADA/DMS system, RTU/FRTU, IT systems, Numerical relays etc. including billing , customer care , GIS etc. already existing and functional in the utility, but outside the present scope of work and defined in RFP by utility .	Kindly confirm the make and version of GIS implemented at Site. GIS has to support data exchange on CIM/XML format	ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1. It will be shared through corrigendum.	Page Number 6- Point Number 21
86	REC_ADMS_BEST Tender_NIT	113/458	Proposed Indicative SCADA Network Architecture	Kindly confirm the role of zonal control centers and RSS/DSS and the HW/SW to be proposed at these locations	Zonal Control Centre is control and monitoring of network of zone. This will have cliets from MCC& BCC, RSS-110KV, 33KV, 22KV level substation. DSS- 11kV \ 415V substation	
87	REC_ADMS_BEST Tender_NIT	230 of 458	This solution shall provide multiple capabilities to support cyber security best practices. Functionality includes centralized patch management	Patch Management for RTU, Firewall/Router at Local s/s-What is the Duration for total Patch Update & How often update shall be done? - Only Patch recommendation is Needed or Testing, and installation of Patches is needed?	The contractor shall propose a centralized patch management solution to securely execute and manage all necessary systems, Security mitigation and signature related patching in timely manner. All host machines shall be configured via domain policy to contact patch servers and check for missing updates. these updates shall be installed manually to avoid cause unscheduled disruptions. All the security appliances (Firewall, antivirus, central cyber, security monitoring and detection appliances etc.) being supplied under this project shall have defenition updates for virus/signatures and updates for software patches for the warranty and complete FMS period.	
88	REC_ADMS_BEST Tender_NIT	233 of 458	The Bidder shall provide tightly integrated intrusion detection & prevention system Capable for detecting the intrusion attempt that may take place and intrusion in progress and any that has taken place. Both Network based and Host based IPS should have centralized Management Console system which will be the application server with NMS. The Centralized management console shall have integrated event database & reporting system & it must be able to create and deploy new policies, collect and archive audit log for post event analysis. The system shall have Integrated Event Database & Reporting System. Automated Update of the signature for eight years shall be provided and there should be provision for creating customized signature.	-We do not recommend IPS as it may result is false-positive of process. -We recommends using the firewall only IDS at RTU locations.	IPS and IDS feature shall be available in firewall. Applicability will be enabled based on requirement and application running through various firewall interfaces.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
89	REC_ADMS_BEST Tender_NIT	234 of 458	The substation level security system will push logs as well as raise flags to the central cyber security management system (CSMS), there after the logs are to be pushed to SIEM. The logs should be routed through DMZ LAN network to the corporate LAN SIEM interface. The Central level CSMS should be easily integrable with the SIEM/SOC. If required, SIEM Log collector modules shall be installed to collect logs, compress and transmit to the Enterprise level SIEM. The SIEM is will be designed in redundant configuration hence integration to SIEM should be considered accordingly All security devices (firewall, IPS) and other sources (antivirus, networking devices, User authentication system, access control, Databases etc.) should be able to push logs to CSMS in flat file format. The CSMS should be able to push the data/logs received with two time stamps, those are time stamp of data received and time stamp data pushed to SIEM. The integration with SIEM should be such that there shall be minimum bandwidth & latency and shall have fast response time	RTU & Router from each s/s has to report to centralized system for Syslogs however same provision is not represented in Architecture. how is to be envisaged?	Page Number 64-Proposed Indicative SCADA Network Architecture	Page Number 64-Proposed Indicative SCADA Network Architecture
90	REC_ADMS_BEST Tender_NIT	245 of 458	a) Certificate Authority and Digital Certificates A Certificate Authority (CA) entity shall be provided to manage digital certificates for secure data exchange within the distributed grid control system. The CA shall be only accessible to system administrators. Digital certificates shall be used for authentication and encryption of the following services: i. Inter-process communication between servers ii. Data exchange between remote partner systems iii. User interface access iv. Database access	No digital certificate required for any equipment at Local s/s	Application running on remote workstations	
91	REC_ADMS_BEST Tender_NIT	256/476	1.6 The RTU shall have min 5,000 I/O tags and shall support integration of at least 40 IEDs on IEC 61850 and at least 25 IEDs on serial protocols. Bidder to consider the hardware such as I/O peripheral, Serial Ports, Communication processors, Converters etc., in the RTU accordingly.	We understand that count 5000 I/O tags capacity is inclusive of hard and soft I/O handling capacity of RTU. Kindly confirm.	Yes	
92	REC_ADMS_BEST Tender_NIT	258/476	For the clause mentioning about Detailed designing parameter of the I/O Modules	The Clause mentioned specification which are pretaining to detailed design of the hardware and signal processing. So would like to mention that proposed device will be complying to IEC60870-2-1 device design standard. Kindly consider and accept the same.	It will be same as mentioned on page 247/458 (NIT).	
93	REC_ADMS_BEST Tender_NIT	257/476	1.24 All the cards/modules of the RTU, Ethernet Switch etc. must have conformal coating for protection against harsh environments.	The RTU Cards and Modules has been succesfully tested for Corrosion test with mixed flow gases without any coating. So this card are capable to sustain harsh environment without need of any coating. So request to kindly consider and accept.	These installation are going to be in coastal area in Mumbai hence conformal coating is very much required. It will be same as mentioned in RFP	
94	Notice Inviting Tender (NIT)	424/458	-	Request you to kindly provide the editable copy of the BOQ	Excel File of Price Bid Attached	Excel File of Price Bid Attached
95	Notice Inviting Tender (NIT)	425/458	Additional Item 3 - Cyber security servers (For Set-1)	Please clarify which Set-1 is this clause referring to? What is the quantity of servers to be considered?	To Comply CEA Guidelines.(2- Anti virus, 1-patch managemnet, 1- syslog, 2- Active directory).	
96	Notice Inviting Tender (NIT)	425/458	Additional Item 2 - Modular Rack for Servers and networking devices (Including DG SETs)	Request you to kindly provide detail description and quantity of Rack and DG SETs to be considered in this BOQ line item.	Kindly Refer, Section 5- Chapter 4 (Page no. 365 to 376) Technical specification for rack	
97	Notice Inviting Tender (NIT)	425/460	Additional Item 1 Cyber security software 2	Request you to kindly provide detail description, type and license quantity to be considered in this BOQ line item.	To Comply CEA Guidelines.(2- Anti virus, 1-patch managemnet, 1- syslog, 2- Active directory).	
98	Notice Inviting Tender (NIT)	425/458	ISR Server	Please clarify the quantity of ISR servers to be considered. It is mentioned that Unit is Set and Quantity is 2. For all other servers the Unit is No. Is the below assumption correct? ISR server: 2 Set = 4 Nos	Unit is Number and quantity - 2	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
99	Notice Inviting Tender (NIT)	426/458	Layer II switch (Planning & Development system LAN)	This item is missing in the DR Control Centre BOQ. However the Development Server is considered in DR CC similar to Main CC. Please confirm if Layer II switch (Planning & Development system LAN) is not to be considered in the DR Control Centre solution.	Quantity needs to be considered- 2 Nos.	
100	Notice Inviting Tender (NIT)	426/458	Control Room Furniture	This item is missing in the DR Control Centre BOQ. Please confirm if this is not to be considered in the DR Control Centre solution.	Page Number 4 - Point Number 15	Page Number 4 - Point Number 15
101	5. Standards 5.1.1	Site altitude Environmental Conditions	As part of customization, Utility may change control voltage 24/48 Vdc as per site requirement but shall be uniform accords state and vendor neutral and also the ambient /operational requirement as per site conditions such as high altitude over 2000m	As part of customization, Utility may change control voltage 24/48 Vdc as per site requirement but shall be uniform accords state and vendor neutral and also the ambient /operational requirement as per site conditions such as high altitude over 2000m altitude upto 1000m	It will be same as mentioned in RFP	
102	5.1 Standards	IEC standards	AC metal enclosed switchgear and control gear for rated voltages above 1 kV and up to and including 52 kV : IS 3427 Classification of degrees of protection provided by enclosures of electrical equipment : IS 12063 High Voltage Switches: IS 9920 (Parts 1 to 4) Specification for AC disconnectors and earthing switches for voltages above 1000 V : IS 9921 (Parts 1 to 5) HV AC Circuit Breakers : IS 13118 General requirements of switchgear and control gear for voltages exceeding 1000 V : IS 12729 High voltage/Low voltage prefabricated substations : IEC 1330 Current Transformers : IS 2705 Voltage transformers : IS 3156 Specification for Static Protective Relays : IS 8686	AC metal enclosed switchgear and control gear for rated voltages above 1 kV and up to and including 52 kV : IS 3427 IEC 62271-200 Classification of degrees of protection provided by enclosures of electrical equipment : IS-12063 IEC 60529 High Voltage Switches: IS 9920 (Parts 1 to 4) Specification for AC disconnectors and earthing switches for voltages above 1000 V : IS 9921 (Parts 1 to 5) IEC 62271-102 HV AC Circuit Breakers : IS 13118 IEC 62271-100 General requirements of switchgear and control gear for voltages exceeding 1000 V : IS-12729 IEC 62271-1 High voltage/Low voltage prefabricated substations : IEC 1330 Current Transformers : IS 2705 IEC 61869-2 Voltage transformers : IS 3156 IEC 61869-3 Specification for Static Protective Relays : IS 8686 IEC 60255	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
103	5.1.4	RMU TECHNICAL PARAMETERS	New recommendation	Manufacturer of the RMU must use its own make of vacuum interruptor in the offered switchgear. The type test reports shall mention the make of the VI used for type testing. Manufacturers not meeting these criteria shall be technically rejected. Vacuum Interrupter (VI), Relay and FPI, these key components should be of same make of RMU manufacturer.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
104	5.2.2	Expandability	The whole switchgear (RMU) should be suitable for extension on atleast one side either left or right.	The whole switchgear (RMU) should be suitable for extension on atleast one side either left or right without any gaps between existing and the extension. No extension busbars on top of RMU are permitted.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
105	5.3	Outdoor Features	New recommendation	The outdoor design has to be an integral outdoor design. Indoor RMU installed inside an outdoor enclosure or brazed/welded to the inside of enclosures are not acceptable. The integral outdoor design should have been successfully type tested for internal arc IAC A FLR 1sec.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
106	5.3	Outdoor Features	New recommendation	There shall be no ventilation louvres on any portion of the RMU to prevent dust entry and ensure long service life	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
107	5.3.2	Corrosion Protection	The main SF6 tank, housing the on-load break switches and the vacuum circuit breakers should be of 2.0 mm thick (minimum) stainless steel tank so as to have high corrosion resistance and ensure high longevity. This tank containing SF6 to a maximum pressure of 1.3 bars @ 20 deg C should be hermetically welded and sealed for life, ensuring a leakage rate not more than 0.1 % per annum.	The main SF6 tank, housing the on-load break switches and the vacuum circuit breakers should be of 2.0 2.5 mm thick (minimum) stainless steel tank of grade SS304 or better so as to have high corrosion resistance and ensure high longevity. This tank containing SF6 to a maximum pressure of 1.3 bars @ 20 deg C or as per type-tested pressure should be hermetically welded and sealed for life, ensuring a leakage rate not more than 0.1 % per annum.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
108	5.3.2	Corrosion Protection	All outdoor metal enclosures shall be treated in 7 tank Pre-treatment process & should be painted with UV Resistant Pure Polyester Powder coating. The powder coated sheet steel fabrication shall fulfill 700 Hrs of Salt spray test. The thickness of Painting/Powder coating shall be of 80-90 microns to withstand tropical heat and extremes of weather.	All outdoor metal enclosures shall be treated in 7 tank Pre-treatment process & should be painted with UV Resistant Pure Polyester Powder coating. The powder coated sheet steel fabrication shall fulfill 700 Hrs of Salt spray test. The thickness of Painting/Powder coating shall be of 80-90 microns 100 +/- 25microns to withstand tropical heat and extremes of weather.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
109	5.3.3	Immunity to Electrical Stress and Disturbance	The complete clause to be deleted		It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
110	5.3.4	Minimum Insulation of Equipment	The RMUs shall be of SF6 gas-insulated type with a maximum gas operating pressure up to 1.2 BAR @ 20 deg C.	The RMUs shall be of SF6 gas-insulated type with a maximum gas operating pressure up to 1.2 BAR @ 20 deg C or as per type-tested pressure	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
111	5.7	General Requirements	New recommendation	Busbars and switching equipments in a 5-way RMU shall be in a common single gas vessel so as to ensure the least gas monitoring points	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
112	5.7	General Requirements	New recommendation	In-house helium leak test facility shall be used by manufacturer to test the welded stainless steel gas vessel for gas leakage.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
113	5.7	General Requirements	New recommendation	Cable entry should be from front bottom only, Side cable entry shall not be allowed.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
114	5.9	Design Details	The degree of protection required against prevailing environmental conditions, including splashing water and dust, shall be not less than IP 54 as per IS 12063.	The degree of protection required against prevailing environmental conditions, including splashing water and dust, shall be not less than IP 54 as per IS-12063 IEC 60529	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
115	5.9	Design Details	The tank shall be made of minimum 2.5 mm thickness of stainless steel.	The tank shall be made of minimum 2.5 mm thickness of stainless steel of grade SS304 or better.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
116	5.9	Design Details	The complete RMU shall be tested in an accredited INDIAN or FOREIGN laboratory and designed for an Internal Arc.	The complete RMU (Gas vessel along with cable compartment) shall be tested in an accredited INDIAN or FOREIGN laboratory and designed for an Internal Arc classification IAC A FLR 21kA for 1sec as per IEC 62271.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
117	5.12	Circuit Breakers	The breakers shall have three positions (or states), i.e., Open, Closed, and Earthed, and shall be constructed in such a way that natural interlocking prevents unauthorized operations.	The breakers in combination with 3 positions off load disconnecter with positions shall have three positions (or states), i.e., Open, Closed, and Earthed, and shall be constructed in such a way that natural interlocking prevents unauthorized operations. This disconnecter shall be mechanically interlocked with the VCB position & should not be operated when the VCB is in ON condition.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
118	5.15	Numerical relay/BCPU	Numerical Relay : USB Port, 2 RJ45 Port, IEC 61850 GOOSE communication, etc	Request for shifting of complete clause to CRP section.	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
119		self powered relay	New recommendation	Relay shall have Thermal overload protection	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
120		self powered relay	New recommendation	Relay shall have Switch on to Fault and operating time shall be <100mSec for fault current > 2xIset	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
121		self powered relay	New recommendation	Relay shall have atleast 4 Binary inputs, 4 Binary outputs, 4 Programmable LED's and 4 Fixed LED	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
122		self powered relay	New recommendation	Relay shall store atleast last 100 events and 10 fault records	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
123		self powered relay	New recommendation	Relay shall have 1 mechanical flag indicator to indicate tripping condition	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23
124		self powered relay	New recommendation	Relay shall have IP54 from front	It will a part of another project ie system strenthening. This part in ADMS RFP will be amended through Corrigendum.	Page Number 7 - Point Number 23

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
125		Fault Passage Indicator	New recommendation	Phase and Earth sensors shall be connected to FPI by fibre optic cable	For existing FPIs: CT wiring is already connected with FPI. For new RMUs: Total commissioning scope will be in SIA (System Strengthening project) however FPI communication & testing shall be in ADMS SIA.	
126		Fault Passage Indicator	New recommendation	Accuracy of phase and earth measurement shall be ≤10 %	For existing FPIs: CT wiring is already connected with FPI. For new RMUs: Total commissioning scope will be in SIA (System Strengthening project) however FPI communication, integration & testing shall be in ADMS SIA.	
127		Fault Passage Indicator	New recommendation	FPI shall have atleast 1200 hours of flashing hours	For existing FPIs: CT wiring is already connected with FPI. For new RMUs: Total commissioning scope will be in SIA (System Strengthening project) however FPI communication & testing shall be in ADMS SIA.	
128		Fault Passage Indicator	New recommendation	FPI shall support on site test functions such as device test, battery test and cable test	For existing FPIs: CT wiring is already connected with FPI. For new RMUs: Total commissioning scope will be in SIA (System Strengthening project) however FPI communication & testing shall be in ADMS SIA.	
129			General	Specification doesn't give clarity about 33kV & 110kV Receiving station scope. Requesting you to please clarify scope in detail	This is part of System strengthening project	
130	5.15, page 343	Numerical relays /BCPU		In case of numerical relays, RTU at substations to act as gateway , data concentrator for numerical relays/ BCPUs connected over IEC 61850 and I/O Cards in RTUs to be configured accordingly i.e. for bays where requisite I/Os are not served through numerical relays/ BCPU	For RMUs and their relays: Total commissioning scope will be in SIA (System Strengthening project) however FRTU/Relays/MFT communication, integration & testing shall be in ADMS SIA. For RSS: BCPU/Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA.	
131	5.15, page 344	Numerical Relay/BCPU	The protection relay shall provide the enhanced Cyber Security function with the security logs and the full central security management for Role Based Access Control (RBAC) using an industry standard protocol.	The protection relay shall provide the enhanced Cyber Security function with the security logs for ID password protection using an industry standard protocol.	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA.	
132			The protection relay shall support Web-HMI (web browser-based HMI) with secured communication to provide the similar functions as the PC configuration tool above.	The protection relay shall support remote monitoring via web HMI or Relay configuration software through IEC61850 network using scada port with secured communication to provide the similar functions as the PC configuration tool above.	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA.	
133			The protection relay shall have wide operating temperature range from -40°C to +70°C.	The protection relay shall have wide operating temperature range from -10°C to +55°C	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA.	
134			The protection relay shall be compliant to Security assurance Level 1 (SL1) with the 3rd party certified for IEC 62443-4-1 and IEC 62443-4-2.	Declaration of cyber security conformance as per IEC 62443-4-2 , IEEE 1686, BDEW shall be provided	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA.	
135	3.3, Page 267	(A) TYPICAL ANALOG & DIGITAL INPUTS/OUTPUTS CONFIGURATION FOR NUMERICAL	For 33-22kV Receiving Substations the digital input asked maximum 11 number	Considering the application 9 Binary inputs are sufficient for the application	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA. Hardwired I/O list/MTS at RTU level will be shared through corrigendum which is part of ADMS project	Page Number 7 - Point Number 23
136		B) FOR 145 kV GIS , 36 kV SWITCHGEAR & POWER TRANSFORMERS AT 110 kV RSS :	For 33-22kV Receiving Substations the digital input asked maximum 11 number 1) For 110 kV Transformer Primary feeder (2Nos) 27BI 27BO 2) Trafo Relay (100 MVA Power Transformer (2 Nos.)) 21 BI 21BO 3) 33 kV Secondary Side (Overcurrent+ Earth fault) - 27BI 27 BO 4) 110kV BUS TRANSFER BAY - 20BI 20BO	Considering the application 23 Binary outputs are sufficient for this application	For RSS: BCPU/Numerical Relays commissioning will be a part of another project ie System Strengthening Project however integration & testing of the same shall be in ADMS SIA. Hardwired I/O list/MTS at RTU level will be shared through corrigendum which is part of ADMS project	Page Number 7 - Point Number 23

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
137	8.1.8 Pg 230 of 458			This solution shall provide multiple capabilities to support cyber security best practices. Functionality includes centralized patch management	The contractor shall propose a centralized patch management solution to securely execute and manage all necessary systems, Security mitigation and signature related patching in timely manner. All host machines shall be configured via domain policy to contact patch servers and check for missing updates. these updates shall be installed manually to avoid cause unscheduled disruptions. All the security appliances (Firewall, antivirus, central cyber, security monitoring and detection appliances etc.) being supplied under this project shall have defenition updates for virus/signatures and updates for software patches for the warranty and complete FMS period.	
138	8.6 Pg 233 of 458	Intrusion Prevention System	The Bidder shall provide tightly integrated intrusion detection & prevention system Capable for detecting the intrusion attempt that may take place and intrusion in progress and any that has taken place. Both Network based and Host based IPS should have centralized Management Console system which will be the application server with NMS. The Centralized management console shall have integrated event database & reporting system & it must be able to create and deploy new policies, collect and archive audit log for post event analysis. The system shall have Integrated Event Database & Reporting System. Automated Update of the signature for eight years shall be provided and there should be provision for creating customized signature.	-We do not recommend IPS as it may result is false-positive of process. -We recommends using the firewall only IDS at RTU locations.	It will be same as mentioned in RFP	
139	CI 8.8, Pg 234 of 458	Security Information and Event Management (SIEM)	The substation level security system will push logs as well as raise flags to the central cyber security management system (CSMS), there after the logs are to be pushed to SIEM. The logs should be routed through DMZ LAN network to the corporate LAN SIEM interface. The Central level CSMS should be easily integrable with the SIEM/SOC. If required, SIEM Log collector modules shall be installed to collect logs, compress and transmit to the Enterprise level SIEM. The SIEM is will be designed in redundant configuration hence integration to SIEM should be considered accordingly All security devices (firewall, IPS) and other sources (antivirus, networking devices, User authentication system, access control, Databases etc.) should be able to push logs to CSMS in flat file format. The CSMS should be able to push the data/logs received with two time stamps, those are time stamp of data received and time stamp data pushed to SIEM. The integration with SIEM should be such that there shall be minimum bandwidth & latency and shall have fast response time	RTU & Router from each s/s has to report to centralized system for Syslogs however same provision is not representated in Architecture. how is to be envisaged?	Page Number 64-Proposed Indicative SCADA Network Architecture	Page Number 64-Proposed Indicative SCADA Network Architecture
140	8.13.3.14, Pg 245 of 458	Access Control	a) Certificate Authority and Digital Certificates A Certificate Authority (CA) entity shall be provided to manage digital certificates for secure data exchange within the distributed grid control system. The CA shall be only accessible to system administrators. Digital certificates shall be used for authentication and encryption of the following services: i. Inter-process communication between servers ii. Data exchange between remote partner systems iii. User interface access iv. Database access	No digital certificate required for any equipment at Local s/s	It will be same as mentioned in RFP	
141	SCC	PDF 456 of 458	The period of validity of the warranty shall be 12 (Twelve) months from the date of commissioning.			
142	Chapter-1	PDF 103 of 458	1.3.11 Warranty: This would include seven years warranty for the related hardware & software supplied under the SCADA/DMS project after the Site acceptance test (S.A.T), operational acceptance of the SCADA/DMS System. The 7 year warranty shall include comprehensive OEM on-site warranty for all components (H/W and Software including OS) supplied including reloading and reconfiguration of all Software and device drivers/patches etc. if required. In case 7 Years warranty is beyond standard warranty period of the equipment, the extended warranty shall be the responsibility of SIA.	1) As per SCC, the warranty period is 12 months. However at some parts of RFP, 5 years warranty period and at some other places (eg. page no. 381), 7 years warranty period is mentioned (eg. page no. 103). Please confirm the warranty period. 2) Further please note that, items likes IT hardware, eletctonic items get upgraded time to time, OEMs don't provide warranty support beyond 5 years from their supply, which means warranty might be available for 3 years from operational acceptance.	1) The period of validity of the warranty shall be 7 Years from the Site Acceptance Test (SAT). 2) The period of validity of FMS shall be 7 years from the date of SAT, same will be revised through corrigendum.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
143	Section - 6, Chapter -2	PDF 381 of 458	The Scope of Work shall include the software and hardware maintenance support to be provided by the Contractor in respect of the system supplied under this project during five year Facility Management Services (FMS) period along with Supervision & Operationalizing five year warranty of the SCADA/DMS System after the Operational Acceptance of the SCADA/DMS System.			
144	Chapter-1	PDF 111 of 458	The RTU, IT equipment's shall comply to Ministry of Power Order dated 6 June 2021 regarding testing procedure to be followed for SCADA system	We did not find MoP circular for the specified date & subject in MOP website. Can you please provide the same.	It is included in RFP- Ref page 66	
145	Section - 2, Chapter -5	PDF 212 of 458	Utility shall provide necessary furniture & shall look aesthetically pleasing. It is not in the scope of contractor.			
146	Price Proposal	PDF 76 of 458	Specific Exclusions - Furniture for the computers required for SCADA/DMS control center			
147	Section - 2, Chapter -5	PDF 98 of 458	k. Suitable space/Infrastructure incl. civil works, electrical raw supply , Air-conditioning , firefighting , building security , lighting , furniture etc. for Control center/DR , Substations for installation of control center/ DR equipments, RTUs /FRTUs/APS etc.in line with SCADA/DMS system implementation schedule.			
148	Chapter-1	PDF 111 of 458	Furniture :-Tenderer shall provide set of suitable furniture for installation of SCADA equipments like servers, workstations, monitors, printers, GPS unit, SCADA/Communication accessories etc. along with Big half-round table, Executive chair (3 Nos.) & Computer chairs (4 Nos.) for SCADA system operating personnel for MCC & BCC, 2 executive tables with chairs & 2 revolving chairs for RTU test set up lab. 4 revolving height adjustable chairs for SZCC, CNZCC. Computer Table for HMI PC at all RSS. The furniture shall be integral part of SCADA system equipments offered for MCC & BCC. Furniture shall be of good quality branded material. Its look shall aesthetically match with the appearance of SCADA system equipments and surrounding in the Control centers/station. The design of offered furniture shall have to be approved by the Undertaking before installing the same at site.	1) From all these different clauses, it is not clear whether Furniture for control center and DR is in Bidder's scope or Utility's scope. 2) In BOQ table (PDF page no. 425) Control room furniture for CC is not mentioned. Same is not mentioned for DR. 3) In case furniture is in Bidder's scope, please provide detailed specification and detailed BOM.	Furniture will be in Utility's Scope	
149	Section -9 (BOQ table)	PDF 425 & 427 of 458	Control Room Furniture for Control Center			
150	Section -9 (BOQ table)	PDF 425 of 458	Additional Item 1(ZCC- for 4 Zones)	Please confirm, whether the quantities of the items mentioned under Additional item 1 are for one ZCC each or for all 4 ZCC.	Yes, Other two control centre are MCC and BCC	
151	Section -9 (BOQ table)	PDF 425 of 458	Additional Item 2 - Modular Rack for Servers and networking devices (Including DG Set)	Please clarify, what is this DG set for ? It's not clear why it is mentioned under this item. As understood from list of exclusions mentioned in page no. 76 of 458, DG set is not in bidder's scope. Please clarify.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
152	Section -9 (BOQ table)	PDF 424 & 426 of 458	Field Force Automation Hardware Cost Cost(Mobile Server,Mobile Devices,OS License,Data Base License)	Please provide detailed specification & BOM for this item as same is missing in the RFP.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
153	Section -9 (BOQ table)	PDF 428 of 458	LDMS software - 2 Nos	Please reconfirm whether the quantity for LDMS software is 2 Nos only, considering the number of RTU (74 Nos) and LDMS PC (14 Nos).	We will revise the quantity of LDMS PC & SW as 77 no. each, Revised BoQ will be shared through corrigendum.	Page Number 72- Revised BOQ
154	Section -9 (BOQ table)	PDF 431 of 458	J3) FPI Communicable No 1900	Whether the newly supplied FPI as a part of this tender would be fitted in new RMU or retrofitted in the existing RMU ? If the FPIs are to be retrofitted, the CTs would be provided by utility or to be supplied by Bidder ?	Existing FPIs already installed in RMUs will be made communicable with ADMS/SCADA by ADMS SIA.	
155	RFP	PDF 40, 55, 62, 75 of 458	Appendix A, Appendix D, Appendix N, Appendix L, Appendix F	There is reference of various Appendices (Appendix A, Appendix D, Appendix N, Appendix L, Appendix F) in the tender document, however same are not found in tender document.	Not a part of RFP.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
156	RFP	PDF 87 of 458	The bidder is expected to complete the implementation within 18 months from the date of award of contract by the utility.	1) There is discrepancies in the implementation schedule in different sections of RFP (Page 87 & Page 432). Please clarify on the implementation schedule time period.	Revised implementation Schedule Attached in Corrigendum.	Page Number 66- IMPLEMENTATION SCHEDULE
157	Section -9	PDF 432 of 458	Implementation Scheule table: Phase-1 - For SCADA : 8 months from award & For RTU : 12 months from award Phase-2 - For DMS & OMS : 8 months from award Phase-3 - For FFA & Integration: 8 months from award	2) This being a revamping work and as there are lot of inputs required to execute this type of projects, at least 30 month is required to complete the implementation activity. Hence request you to please change the implementation period to 30 months.		
158	RFP	PDF 87 of 458	Facilities Management Services post successful completion of acceptance tests shall be provided for a period of five years from the date of completion of acceptance test.	There is discrepancies in the FMS period in various sections of RFP (Page 87, 94, 381 & Page 84). Please clarify.	FMS shall be for 7 years from the date of SAT, same will be revised through corrigendum. Ref: page no. 353 (SBD Model spec)	
159	Chapter-1	PDF 94 of 458	Facilities management services for maintaining infrastructure as per SLA, post successful completion of acceptance tests for a period of five years from the date of completion of acceptance test.			
160	Section - 6, Chapter -2	PDF 381 of 458	The Scope of Work shall include the software and hardware maintenance support to be provided by the Contractor in respect of the system supplied under this project during five year Facility Management Services (FMS) period along with Supervision & Operationalizing five year warranty of the SCADA/DMS System after the Operational Acceptance of the SCADA/DMS System.			
161	Price Proposal	PDF 84 of 458	Cost of FMS for 7 years shall not be less than 35 % of total project cost and per year unit rate shall same			
162	Price Proposal	PDF 81 & 84 of 458	Form 6:- Price Schedule for Communication System (Page 81) Form 10:- Price Schedule for FMS Charges (Page 84)	Annual Bandwidth charge for GPRS & MPLS should be part of FMS charge, however same is not considered under FMS price schedule (Form 10). One time charge for installation of MPLS leased line can be part of Implementaion work (Form 6). Request you to segregate the same in price schedule for better clarity.	1. One time charges for installation of MPLS leased lines wherever required alongwith their usase charges till completion of project (SAT) shall be considered as part of ADMS implementation project. After SAT usage charges will be included in FMS. This will be applicable for GPRS one time cost (if any) alongwith usage charges for FRTU/FPI communication also.	
163	Price Proposal	PDF 84 of 458	Cost of FMS for 7 years shall not be less than 35 % of total project cost and per year unit rate shall same	This condition would heavily impact financial condition of SIA/Bidder as implementation cost would be more than 90% of total project cost. Hence request you to please change the FMS content 10%.	As per RDSS guidelines/SBD (Model page 353) it will be same.	
164	Annexure-1	PDF 457 of 458	Payment terms	The current payment terms would impact SIA/Bidder very badly, request you to consider payment terms as per our proposal given in Annexure-1. Please consider following points while finalizing the payment terms. - Software development activities will be almost completed by FAT. Payment should be proportionate to the same. - Training service and Supply of spares & test equipment are independent of Operational acceptance test. It should not be linked to Operational acceptance test	As per RDSS guidelines/SBD (Model page 353) it will be same.	
165	Section-6 Chapter-2 FMS	PDF 393 of 458	2.7 Availability and Payment charges Calculation	As network provided by Communication Service provider is not in control of SIA, non adherence of SLA (or for performance calculations/ availability calculation) due to any issue related to communication front by Communication service provoider, shall not be in Bidder's account.	Triparty agreement shall be made among SIA, Network operator and utility. Primary responsibility shall lie with SIA.	
166	RFP	PDF 49 & 57 of 458	Bank Gurantee Format Performance Security Format	We request some changes in the formats as per bank requirement. Please consider attached Annexure-2 for the BG and performance security format.	This will be as per RFP/SBD	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
167	RFP	PDF 41 of 458	Scoring Calculation	There are some calculation error in marking and scoring. Request you to update the same.	We will revise the qualifying requirement/eligibility criteria as per SBD through corrigendum.	Qualifying Criteria already floated as a part of Corrigendum.
168	Section-3 Chapter-1	PDF 247 to 285 of 458	IO Counts for RTU and FRTU	- For estimating the cost we need IO counts per substation for RTU and IO counts per RMU for FRTU. - The IO count calculation provided on page no. 269 & 277 for RTU is not accounting no. of equipments, hence the total count calculation per substation is not correct. -Hence request you to provide IO counts for RTU and FRTU for proper estimation.	RTU shall support total 5000 points (software and hardware). Ref page 254 for hardware cards clause 1.44.25 RTU Panel should have Digital Input - 32 nos. Digital Output - 16 nos. Analog Input 4-20 mA - 16 channel. Regarding FRTU specs is given in ammendment Revised BoQ and MTS will be shared through corrigendum.	Page Number 72- Revised BOQ
169	Section-9	PDF 429 of 458	GPRS Annual charges for 2MBps Links with FRTUs /FPI -2770 Nos Modem -870 Nos	Generally FPI communicates to FRTU over Modbus, as it doesn't have option for internal SIM/modem and FPI status is communicated to SCADA through FRTU. As there are 870 FRTUs, requirement of 2770 nos. of GPRS connection is not clear. Request you to share the breakup requirement of this 2770 nos. of GRPS connection.	There are 1900 FPI at non automated DSS (where FRTU is not available) requires to be integrated with ADMS Revised BoQ and MTS will be shared through corrigendum. Breakup: 870 FRTU + 1900 FPI	
170	Section-9	PDF 429 of 458	GPRS Annual charges for 2MBps Links with FRTUs /FPI -2770 Nos	GPRS connection are generally specified as 4G / 3G / 2G connection and Mbps link is usually used for leased line connection. We understand the network requirement is 4G fall back to 2G.	4G fall back to 3G/2G	
171	Section-9	PDF 429 of 458	Annual charges for 100MBps Links with RTUs --- 82 Nos.	Please provide the break-up for the MPLS line for better clarity. Also please revalidate and confirm the requirement of 100 Mbps link	Page Number 72- Revised BOQ	Updated in Corrigendum
172	Section-2, Chapter-5	PDF 202 & 203 of 458	B) Communication server • Front –End server (Communication Front End) FEP(CFE) • ICCP /Inter control center communication server E) Data recovery DR/ Communication server ^	ICCP server is not mentioned under Section -9 BOQ.	Page Number 72- Revised BOQ	Page Number 72- Revised BOQ
173	Section 6, Chapter 2 FMS	PDF 382 of 458	In case RTU/FRTUs and associated components are added for further growth in the network during FMS period and are part of supply by SIA only (as per same unit rate of the contract for implementation and 7 Years of FMS period, then SIA shall also responsible erection , commissioning of the same).	This clause is not clear. We understand the items which are supplied in line with the price schedule, but not installed with in impementation time period due to any reasons not attributable to Contractor, shall be paid in full. Further, we have not envisaged any negative variation in quantity post notification of award.	During FMS In case of netwok groth, any components will be required to install & commissioned same shall be done by SIA as per rates mentioned in the contract.	
174	Section 6, Chapter 2 FMS	PDF 394 of 458	In the event of availability below a certain level, the maintenance charges would be proportionately reduced as follows: Table-1 - For overall system availability: - Availability/Quarter = More than or equal to 99% : NIL - Availability/Quarter = Less than 99% : Deduction of 2.5 % of the apportioned price on each 1% non-availability below 99% and upto 95% and deduction of 4 % of the apportioned price on each 1% non-availability upto 90% & nil below Table-2 - For individual hardware & non critical functions: - Availability/Quarter = More than or equal to 98% : NIL - Availability/Quarter = Less than 98% : Deduction of 2.5 % of the apportioned price on each 1% non- availability below 98% and up to 95% and deduction of 5% of the apportioned price on each 1% non-availability up to 90% & 100% deduction below 90%	1) For calculation of "Availability per Quarter" (in page no. 394 of 458) non-availible hours due to different types of defects with different severity levels (which includes both critical & non critical functions) are already considered. As overall system availability is the main requirement of Utility and deduction for not meeting the same is already considered under table-1 , there should not be separate deduction "for individual hardware & non critical functions" under table-2 . Hence request you to delete the 2nd table. 2) We understand apportioned price mentioned under the tables means, quarterly FMS charge. Please confirm.	It will be same as mentioned in RFP/SBD. Refer page no. 395.	

SR. NO.	DOCUMENT REFERENCE / CLAUSE NO.	PAGE NO.	CLAUSE DESCRIPTION	QUERIES	Response	Corrigendum Details
175	Section 7	PDF 401 of 458	The employer/Inspector shall, within fourteen (14) days from the date of inspection as defined herein, give notice in writing to the Contractor of any objection to any drawings and all or any equipment and workmanship which in his opinion is not in accordance with the Contract. The Contractor shall give due consideration to such objections and shall make the modifications that may be necessary to meet said objections. When the factory tests have been completed at the Contractor's or Sub- contractor's works, the employer/Inspector shall issue a certificate to this effect within fourteen (14) days after completion of tests but if the tests are not witnessed by the employer/Inspector, the certificate shall be issued within fourteen (14) days of receipt of the Contractor's Test Certificate by the Employer/Inspector. The completion of these tests or the issue of the certificates shall not bind the employer to accept the equipment should it, on further tests after erection, be found not to comply with the Contract.	Request you to change the number of days in the clause from 14 days to 3 days , as 14 days is too long for such stringent time line projects.	It will be same as mentioned in RFP/SBD.	
176	Annexure-1 Payment terms	PDF 458 of 458	Progressive /Milestone based payment for Each Project Area excluding DR Centre. ** Payment for Disaster Recovery Centre In case of common Disaster Centre, First part of payment for Disaster Centre shall be towards satisfactory completion of Operational Acceptance Test (as defined in MTS) for any project area with Disaster Recovery Centre, which will be equivalent to 50% of the total value under this head. The rest of the payment shall be done on basis of satisfactory completion of Operational Acceptance Test (as defined in MTS) for other project areas apportioned on basis of number of project areas (Control Centre).	Hardware & Software items for CC and DR are same and their time line for Supply & FAT would be same. So it is not clear why the payment terms for DR is different than CC. Further the defined payment terms for DR is not fully clear. Hence request you to make same payment terms for both CC and DR items.	It will be same as per RFP/SBD	
177	Chapter-1	PDF 111 of 458	Location & details of MCC and BCC (DR)	Location and other details of MCC and BCC (DR) is not defined. Please provide the details including current status of the same.	Both MCC and BCC are located in south Mumbai	
178	Chapter-1	PDF 103 of 458	Existing BEST System	Please provide substation wise list of equipments including no. of feeders, no. of power transformers with their details and their respective los, which are to be monitored & controlled through proposed SCADA.	Is provided in tender document. Page 103 - 104 Existing system details	
179	Chapter-1	PDF 104 of 458	5.6.1 At present there are 64 Nos. of 110/33/22 kV Receiving substations/ HT room/33-0.415 kV DSS in BEST network. These are bifurcated into 5 zones namely North West, North East, Central North Zone, Central South and South Zones for operational convenience	1) As per Existing BEST details, there are 64 nos. of RSS. However there are 47 nos. of RSS shown in table under clause no. 5.6.1 (Existing BEST SCADA System) and there are 74 nos of RTU asked in BOQ. Please clarify the discrepancies. 2) Please define proposed network architecture showing MCC, BCC and RSSs with their location name. We understand there are 4 nos. of existing ZCC. Please show their status in proposed architecture.	This is specified including future expansion in next five year. Architecture diagram is included in ammendment	Updated in Corrigendum
180	Chapter-1	PDF 103 of 458	Existing BEST System	We understand existing RTUs and SCADA will be replaced by new RTU and SCADA system which are part of this tender. Also we understand Numerical relays are also going to be replaced as a part of another tender. Please define the scope related to this retrofitting work clearly and include the same in Price schedule.	1. Yes 2. Integration of existing/new relays with RTU/ADMS shall be in ADMS bidder's scope.	
181	Chapter-1	PDF 106 & 110 of 458	5.6.3.6 A New RSS without SCADA	1) New RSS without SCADA. There are 13 nos of RSS listed under clause no. 5.6.3.6 A 1. However 11 nos. of new RSS are shown under "Existing network of SCADA system". Please clarify the discrepancies. 2) Please confirm, whether all these new RSS are currently available and running or yet to come in future ?	New RSS are yet to come	

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182	Chapter-1	PDF 103 of 458	Existing BEST System	1) Are there any retrofitting/revamping work in the RSS ? If yes , please define bidder's scope of work regarding the same. 2) Please define the retrofitting work involved with MFTs, CRMs and Heavy duty relay as there are appearing in BOQ. 3) Please define the scope related to relay integration work with RTU and FRTU.	Yes, , Vendor has to provided all material and services for communication and integration of existing as well new relays in substation. Also removal of old hardware, wiring is in vendors scope. Work is specified in detail in ammendment	Decommissioning part mentioned in Corrigendum.
183	Chapter-1	PDF 103 of 458	Existing BEST System	Please provide the details (make, model, firmware version, Commissioned & Operation since, Waranty upto) of existing legacy system which are to be integrated with proposed SCADA system.	Following to be integrated GIS system, Numerical Relays and old history system	
184	Chapter-1	PDF 103 of 458	Existing BEST System	What is the implementation time line of various future systems which need to be integrated with proposed new SCADA system.	Relevant project under RDSS scheme is in bidding process.	
185	Chapter-1	PDF 103 of 460	Existing BEST System	For the integration of third party system with proposed new SCADA system, we understand that, Integration services at the end of proposed new SCADA system will be considered by Bidder/SIA and Integration services required at the end of third party system will be arranged by the Utility/Purchaser.	Services at both end is in bidder scope	
186	Annexure-1 Payment terms	PDF 457 of 458	10% of total value of contract as (excluding FMS and Bandwidth Charges) "Mobilization Advance" after signing the contract. The following shall be ascertained before release of payment:- • Opening of site office in project area • Submission of necessary Bank Guarantee for the 110% of Initial Advance (Interest bearing) • Submission of the necessary Contract Performance Bank Guarantee. The same will be released on completion of contract/assignment. • Submission of agreed project implementation schedule	1) As advance has interst bearing on it, in case SIA doesn't want to avail it, how the said payment will be made to SIA is not clear in the Payment terms. 2) Request you to remove interest on advance payment.	It will be same as per RFP/SBD	
187						
188	Chapter-1	89 of 458	Segregation of feeders dedicated only for supply of power for agricultural purpose, which are proposed to be solarized under Kisan Urja Suraksha Evam Utthan Mahabhiyan (KUSUM) scheme will be sanctioned on priority under the scheme. Further, agricultural feeders once segregated will not be used for serving other non agricultural consumers.	Please let us know if we have to integrate with any solar system under KUSUM.	There is no agriculture feeder in BEST area.	
189	Chapter-1	94 of 458	The activities shall be ensured for at least post successful completion of acceptance tests for a period of seven years from the date of completion of operational acceptance of the SCADA/ DMS System. However, under RDSS scheme, utilities will be funded & awarded for FMS for two years from the date of Go-Live / S.A.T only but bids will be evaluated considering 7years of FMS	We would request utility to consider 5 years for FMS from the date of Go Live . Also we request utility to declare the Go live for SCADA, DMS and OMS separately. We understand that GIS data will be required for data cleaning and for DMS and OMS and many input like CRM/IVR/SAP will take considerable amount of time .	FMS shall be for 7 years. Ref: page no. 353 (SBD Model spec)	
190	Chapter-1	94 of 458	However, under RDSS scheme, utilities will be funded & awarded for FMS for two years from the date of Go-Live / S.A.T only but bids will be evaluated considering 7 years of FMS	Please provide better clarity on the FMS period if bidder has to consider it for 2 years or 7 years	FMS shall be for 7 years. Ref: page no. 353 (SBD Model spec)	

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191	Chapter-1	93 of 458	DATA of outage /SAIDI/SAIFI to be transported In machine to machine mode to National Power portal or any other Gol portal as notified in future.	Please provide the what types of data is required to be send to NPP or any GOI. Also Let us know if any kind of specific report bidder have to share with GOI	SIA shall provide the required details asked by NPP (Gvt. of India) time to time.	Monthly Interruption Details(SAIDI/SAIFI) Outage Data (feederwise) Hours of Power Availability Report (Feederwise) etc shall be part of this scope. Necessary API updation and integration shall be in SIA Scope.
192	Chapter-1	93 of 458	Integration with State Load Dispatch centre (SLDC) for the state for exchanging relevant real time data & scheduling data over ICCP if opted by utility. In case utility includes data exchange facility with SLDC, then it is their responsibility to do necessary bilateral agreement for data exchange with TRANSCO or owner of SLDC. &facilitate necessary help to SIA Facilities management services for maintaining infrastructure as per SLA, post successful completion of acceptance tests for a period of five years from the date ofcompletion of acceptance test.	Please provide the number of SLDC to be integrated . Also Confirm that any kind of hardware ,Software required at SLDC will be provided by BEST .	There will be two SLDC for BEST. ICCP hardware/Software and relevent items will be required to commissioned at DC & SLDC and DR & SLDC for smooth exchange of data in redundant mode.	
193	Chapter-1	95 of 458	The Scope of Work shall include the software and hardware maintenance support to be provided by the Contractor in respect of the system supplied including interim audit in case of major change and regular annual Cyber security audit by CERT.IN empanelled agency or any agencies notified by MoP/Gol /Nodal agency under this project during 7 year Facility Management Services (FMS) period along with Supervision & Operationalizing 7 year warranty of the SCADA,DMS,RTDAS System and communication network after the Operational Acceptance of the same	After ADMS Go live/Operational Acceptance, we request utility to conduct a cyber security Audit annually in their scope as it is difficult to estimate the probable network changes that would be considered by Utility in FMS period.	It will be same as per RFP/SBD	
194	Chapter-1	96 of 458	Integration Scope: SIA should ensure that legacy systems and the new solutions lined up by them are tightly integrated and do not remain stand-alone and shall perform on real time basis as envisaged in specifications.	Please provide the details of existing legacy SCADA/DMS system ,its warranty ,support period. In case of any hardware or software issue who will provide the support. Please confirm the same.		
195	Chapter-1	96 of 458	All required external systems shall be integrated using an integration middleware layer. The scope of integration of external systems includes, legacy SCADA/DMS system, RTU/FRTU, IT systems, Numerical relays etc. including billing , customer care , GIS etc. already existing and functional in the utility, but outside the present scope of work and defined in RFP by utility .	1. We understand that existing billing and customer care system support web services required for OMS. Any support required for integration at SAP/CRM/CCC will be provided by utility. Any third party services required exclusively for making SAP/CRM/ Integration ready will be provided by utility. Please confirm. 2. Also we understand that exisiting SCADA is not having any GIS network so it will be difficult to update the GIS network at Two places ,therefore we recommend to take the field data directly from the FRTU or RTU to new proposed new SCADA/ADMS system i.e. exsisting SCADA will not be used and new SCADA will be used .	1. Upcoming Billing system/CRM, etc (covered in another project) integration shall be in ADMS SIA scope. 2. Existing GIS system (ESRI ArcGIS 10.8.1 & Schneider ArcFM 10.8.1) need to be integrated with ADMS/SCADA system by SIA. 3.All RTU and FRTU to be integrated with new ADMS	
196	Chapter-1	96 of 458	The integration is expected to be Industry Standards Based on IEC 61968-1 Bus (SOA Enabled on enterprise Bus) using CIM/XML, OPC, ICCP etc., which is, on-line, real time or offline where appropriate and shall operate in an automated fashion without manual intervention, which is documented for future maintenance.	We would request utility to provide the option of integration through web services	It will be same as per RFP/SBD	
197	Chapter-1	111 of 458	It is also proposed to integrate ABT, HT meter data on DLMS protocol in SCADA at Control level from AMI system. The supplied SCADA system shall have capability to show the AMI data of each feeder	Please Provide the details of existing AMI System .Total number of Meters required to be integrated.	AMI system will be implemented under RDSS scheme. Total number of meters will be 10.80 Lakhs(approx.)	
198	SECTION 2 , Chapter 5	214 of 458	The Contractor shall supply, at its own expense, all consumables required for use during all phases of the project through completion of the system availability test.	Consumable should be provided only once and at the time of delivery of hardware. After that it should be provided by utility.	Agreed	

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199	SECTION 9	424 of 458	Field Force Automation Hardware Cost (Mobile Server, Mobile Devices, OS License, Data Base License)	Please provide the more details and exact quantity of Mobile devices and other items required for this.	FFA details and mobile devices has been updated in Corrigendum under field force automation Specification.	FFA details and mobile devices has been updated in Corrigendum under field force automation Specification.
200	SECTION 2 , Chapter 2	159 of 458	The Web-Based Solution offers an extended thin-client web-based application that allows users to visualize, simulate, and manage their electrical systems remotely from the web.	We understand that the Web-Based Solution offers an extended thin-client web-based application like load flow that allows users to visualize, simulate, and manage their electrical systems remotely from the web. Other Simulation conditions will be done from the consoles. Please confirm	Agreed	
201	SECTION 9	424 & 427 of 458	Remote VDUs with one TFT Monitors	Bill of Material for RVDU is not matching with Proposed Architecture .Please provide the Exact Quantity for RVDU along with Switches and consoles quantity	Page Number -72 Revised BOQ.	Page Number -72 Revised BOQ.
202	SECTION 9	424 & 426 of 458	SAN Switch and SAN Storage	Please provide the exact Quantity for MCC and BCC.	1 No. each at MCC and BCC as specified in BoQ	
203	SECTION 9	425 of 458	Additional Item 2 - Modular Rack for Servers and networking devices (Including DG Set)	We understand that there is UPS in the control centre with sufficient backup .Please confirm that DG is required or not , Capacity and purpose to use.	DG will be in utility's scope	
204	SECTION 9	424 to 427 of 458	BOQ for Hardware & Software for CC & DR	Please review the Bill of Quantity for MCC and BCC separately and provide the exact quantity .	Page Number -72 Revised BOQ.	Page Number -72 Revised BOQ.
205	ITB	33 of 458	In respect of this package, the Independent External Monitors (IEMs) would be monitoring the bidding process and execution of contract to oversee implementation and effectiveness of the Integrity Pact Program. The Independent External Monitor(s) (IEMs) as mentioned at UTILITY WEBSITE (Mention web address) have been appointed by Utility, in terms of Integrity Pact (IP) which forms parts of the Name of Utility Tenders/Contracts.	Please provide the more details about Independent External Monitors(IEMS). Is it going to be govt Agency? What would be their roles during bid stage and after award stage ?	It could be a govt or private agency	
206	Chapter-1	91 of 458	Mobile APP, Web client for Crew (MAWC)	What are the functionality Utility is looking from Mobile APP. Please provide more details.	Please refer field crew management specification	
207	Chapter-1	93 of 458	DATA of outage /SAIDI/SAIFI to be transported In machine to machine mode to National Power portal or any other Gol portal as notified in future.	W understand that data of outage SAIDI/SAIFI will be transferred through web services .Please confirm. Also let us know who will provide the any support ,hardware, software required on other end for integration .	SIA shall provide the required details asked by NPP (Gvt. of India) time to time. Integration activity shall be acried out jointly with SIA and NPP agency. Format: JSON/XML/CSV, etc.	
208	SECTION 9	424 & 426 of 458	Field Force Automation Hardware Cost(Mobile Server,Mobile Devices,OS License,Data Base License)	Please let us know the quantity of Mobile Devices	Please refer field crew management specification	
209	Chapter-1	103 of 458	Existing BEST System	We understand, existing SCADA system is going to replaced with new proposed SCADA as existing system is old and it would be difficult to run the system in integrated manner.	Agreed, old SCADA system will be decommissioned and shall be in SIA's scope.	
210	SECTION 2 , Chapter 1	138 of 458	Common Disaster Replica Recovery Centre (DRR) and Data recovery function (DR)	Please provide clarity utility is looking for which architecture out of following : - MCC and BCC or - MCC -BCC and DRR or - MCC and DR	MCC and BCC	
211						

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212	Section -2, Chapter -1	PDF 114 of 458	Generally the following are to be classified as Critical functions: a) All SCADA applications b) Information Storage and Retrieval (ISR) c) Load Shed application (LSA) d) Outage data analytics and reporting (ODAR) e) All DMS & OMS applications (Group A Towns only) f) Data exchange among the contractor supplied SCADA/DMS system, IT system established under R-APDRP g) Web server applications , Security applications h) Network Management system (NMS)	Please clarify, do you need the redundancy for all the security servers like Domain controller, NIDS, HIDS, Antivirus, Patch Management etc in Main and the DR control centre?	Redundancy is required for Domain controller, Antivirus and firewalls (ref architecture diagram)	
213	Section -2, Chapter -4, SYSTEM SOFTWARE REQUIREMENTS	183 of 458	The cyber security same shall certified on SAT by CERT.IN empanelled agency/ NCIIPC or any Gol agency before Operational acceptance by SIA. The same shall be required to be verified at least once annually or Major upgrade or change on the system or data of validity of certification which ever earlier during the FMS period also and maintain required performance and functional requirements/SLA	As per the RFP requirement, it is not clear what is required here-- Do you want the the detailed Vulnerability assessment in all the servers/workstation parts of the main and DR control centre only or in ths substation also? In the Vulnerability assessment, the security consultant will run certain tools in the network to find the vulnerabilities, indicating weaknesses in the system. Also, It provides the appropriate mitigation procedures required to either eliminate those weaknesses.	As specified, third party audit of complete automation system (at control centre, Network and substations) throug CERT.IN enpaneld Agency is in bidders scope.	
214	Section -2, Chapter -4, SYSTEM SOFTWARE REQUIREMENTS	189 of 458	The Network management system shall manage the interfaces to the SCADA/DMS servers, workstations, devices, communication interface equipment, and all SCADA/DMS gateways and routers, switches etc	We understand that the NMS scope is limited to the assets available in the main and the DR control centre ? Please confirm if our understanding is correct ?	It also covers devices at substations	
215	Section -2, Chapter -4, SYSTEM SOFTWARE REQUIREMENTS	199 of 458	A utility to backup auxiliary memory of server and workstation files onto a user- selected auxiliary memory or archive device shall be supplied. The backup utility shall allow for user selection of the files to be saved based on: (a) Server and workstation (b) File names (including directory and wildcard designations) (c) File creation or modification date and time (d) Whether or not the file was modified since the last backup. A backup utility that can back up all server and workstation auxiliary memories on to a single target auxiliary memory or archive device shall be provided. The backup utility must ensure that the source auxiliary memory files are captured properly regardless of caching activity	As per our understanding, the scope of storing the backup in each control room is limited to the assets available in the main and DR control rooms i.e the storage & Backup devices in the main Control room would be used to store the backup of servers/workstation from the main control room and the storage & Backup devices in DR centre would be used to store the backup of servers/workstation in the DR Center. Please confirm if our understanding is correct ?	Yes two independent ISR and online backup server along with San storage considered for MCC and BCC	
216	Section -2, Chapter -5 HARDWARE REQUIREMENTS FOR SCADA/DMS	205 of 458	Redundant Web servers with active directory LDAP, DNS shall be provided.	As per the tender architecture, Domain controller has been shown as a part of main production zone. COuld you please clarify the purpose of the active directory with web server in DMZ zone ? Which all users (DMZ users/ Intranet users/ External Users/Remote VDU users) will be authenticated from this active directory? Have you considered this DMZ Domain controller in the BOQ?	Domain controller considered here is for all users of ADMS application in the network (for local as well as remote client)	
217	Section -2, Chapter -5 HARDWARE REQUIREMENTS FOR SCADA/DMS	205 of 458	One router shall be provided which shall be connected to the external LAN/WAN communicating SCADA/DMS system. The external LAN/WAN users shall be able to access SCADA/DMS data through the Web server system through this router.	Could you please clarify the purpose of using the router in the network? Because modern firewalls have the ability to serve as a router, negating the need for another routing device on the network.	As per RFP, the bidder has to provide the separate router.	
218	Section -2, Chapter –8 Cyber Security Management System	230 of 458	8.1.10 Security Solution that will be implemented should have capability of all four Security Levels on the basis IEC 62443 3-3 and IEC 62443-2 , description of which is given below for bidder's reference:	Mostly the products used under the power sector are under CS maturity evolution stage across all OEMs, hence we propose the product/components complying to IEC-62443-4-2 SL1 level. Please confirm.	It will be as per RFP or as per order of MoP & guideline of CEA, whichever is latest.	

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219	Section -2, Chapter –8 Cyber Security Management System	230 of 458	8.1.10 Security Solution that will be implemented should have capability of all four Security Levels on the basis IEC 62443 3-3 and IEC 62443-2, description of which is given below for bidder's reference:	IEC 62443-3-3 is system level security approach following defense in depth principal. Our proposal will be inline to the control technology requested as a part of RFP which as per our understanding would be meeting upto IEC 62443-3-3 SL2. Please elaborate in detail the specific controls covered as a part of SL-3 and SL-4 compliance.	It will be as per RFP or as per order of MoP & guideline of CEA, whichever is latest.	
220	Section -2, Chapter –8 Cyber Security Management System	231 of 458	8.3.7 Secure remote access connectivity should have customized upon request, typically through a combination of RDP firewalls and access controls. The solution should support administration of network devices and enforces multi-factor authentication and encryption of network administration traffic	<p>1. As per the clause, you required multi-factor authentication only for remote users remotely connecting to the system for maintenance or administration purposes. Please confirm if our understanding is correct?</p> <p>2. Also please confirm whether you want this security control also redundant or standalone ?</p> <p>3. No hardware has been considered in the BOQ, however it is shown in the tender architecture (page-113)</p>	<p>1. As per RFP it will include the purpose of remote users for control & monitoring also.</p> <p>2. Redundant</p> <p>3. Revised BoQ will be shared</p>	
221	Section -2, Chapter –8 Cyber Security Management System	233 of 458	<p>8.6 Intrusion prevention System (IPS) The Bidder shall provide tightly integrated intrusion detection & prevention system Capable for detecting the intrusion attempt that may take place and intrusion in progress and any that has taken place. Both Network based and Host based IPS should have centralized Management Console system which will be the application server with NMS. The Centralized management console shall have integrated event database & reporting system & it must be able to create and deploy new policies, collect and archive audit log for post event analysis. The system shall have Integrated Event Database & Reporting System. Automated Update of the signature for eight years shall be provided and there should be provision for creating customized signature.</p>	This is not clear. Can you clarify how many years subscription license do you need for all proposed security services like Antivirus, backup, remote access, MFA etc ?	7 years - as part of warranty and FMS	
222	Section -2, Chapter –8 Cyber Security Management System	233 of 458	8.6.1 Intrusion Prevention System (Network Based) C) Beep or play a .WAV filed)	The IPS continuously monitors a network for malicious activity and takes action to prevent it, including reporting to the administrator in the form of a critical alarm/Event, blocking, or dropping it, when it does occur. However, it doesn't have any beep sound like in SCADA. Could you please elaborate more on "to beep or play a .wav file"?	As specified alarm with audible alert is specified	
223	Section -2, Chapter –8 Cyber Security Management System	234 of 458	The substation level security system will push logs as well as raise flags to the central cyber security management system (CSMS), there after the logs are to be pushed to SIEM. The logs should be routed through DMZ LAN network to the corporate LAN SIEM interface.	<p>1. Please confirm, as per the clause, is there any existing substation level security system are there in the substations? or do we have to include the security function in each substation? Please update the substation BOQ, as there are no security system has been included.</p> <p>2. Which existing SIEM solution do you have in the SOC, needs to be integrated with the Main Control centre Logger?</p>	Presently there is no security functions available at substation level. Bidder to make provision to integrate logger to SIEM planned in future	
224	Section -2, Chapter –8 Cyber Security Management System	234 of 458	The Centralized threat management system shall be capable of displaying real time & historical information of the connected Firewall, IDS, IPS systems and the threats encountered / logged / quarantined. This system will be used for data acquisition and management of Station Level Intrusion Detection System (IDS) installed at the station level and Next Generation HA Firewalls installed at the MCC and NCC control centre interfaces. Main Functionalities of this system will be as follows: A) Management of all the HA Next Generation Firewalls and Intrusion Detection Systems B) Gathering of cyber logs generated by IDS at various substation	Please confirm, do we have to include an IDS sensor in each substation as per the clause given in the technical specification ? Please update the substation BOQ, as there are no station IDS has been included.	Firewall at substation shall have IDS and IPS facility	

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225	Section -2, Chapter –8 Cyber Security Management System	234 of 458	Refer Architecture under section 8.10- Page 236 Proposed Indicative Architecture at SSCC & DR Site (MCC & BCC)- Page 113 Refer Main and DR Control centre BOQ- Page 424	Request for more clarity on the CS requirements in terms of BOQ and high level security architecture indicating the typical requirements at each level and location. e.g: •CS BOQ indicating the requirements at DR Centre. •Quantifying the existing 6 CS workstations. •Clarity on redundancy requirements of CS controls / Integration of DR control Centre with the CS. •High Level CS architecture (Main & DR center).	Cyber security infrastructure is common for MCC and BCC as well as Cyber security management system	
226	Section -2, Chapter –8 Cyber Security Management System	234 of 458	8.9 Central Cyber Security Management System The Centralized threat management system shall be capable of displaying real time & historical information of the connected Firewall, IDS, IPS systems and the threats encountered / logged / quarantined. This system will be used for data acquisition and management of Station Level Intrusion Detection System (IDS) installed at the station level and Next Generation HA Firewalls installed at the MCC and NCC control centre interfaces.	1. Could you please elaborate on which all security applications would be part of the CSMS server and where they will be installed (Main or DR Center)? This CSMS sever has not been shown in the architecture nor in the BOQ. Please update the CSMS server in BOQ and architecture. 2. Whether this CSMS server will also be redundant?	CSM is shown as part of cyber security sever . All firewall managemnet and moniroring shall be available in this server	
227	Section -2, Chapter –8 Cyber Security Management System	235 of 458	The Intrusion Detection System (IDS) shall be placed in the Automation LAN network at each station. These IDS systems shall not be interfering with the normal Automation communication packets / protocols and shall reside in passive mode. The protocols and communication packets will be listened by the IDS, sniffing the traffic at the station level (incoming, outgoing and within station traffic). This station level IDS system will report to the central Cyber security management system, the reporting will include sending logs related to cyber threats at station level and raising flags if any vulnerability / anomaly is detected	Please confirm, do we have to include an IDS sensor in each substation as per the clause given in the technical specification ? The specific clause is not inline with the substation BOQ, so please update the substation BOQ, as there are no station IDS has been considered.	Firewall with IDS and IPS capability is included as part of RTU panel specs	
228	SECTION 9	424 of 458	C1 Server/ workstation Hardware Workstation with dual TFT Monitors (Network monitoring) - 3 Qty	As per our undeerstanding, this Network monitoring workstations would be used to monitor the network, system performance, alerts and the events of main and DR control centre. Please confirm if our understanding is correct ?	These are monitoring DSS stations through FRTU (11KV/415V substation monitoring)	
229	SECTION 9	425 of 458	C1 Server/ workstation Hardware Firewall & network IDS/IPS	Could you please share the breakup of 8 firewalls?	Qty considered to 8 (2 internal, 2 external, 2 interfacing with IT and 2 interfacing with MPLS network) all in HA mode.	
230	SECTION 9	425 of 458	C1 Server/ workstation Hardware Additional Item 3 - Cyber security servers (For Set-1)	1. What is the set-1 and could you please provide the breakup of 6 cyber security servers? 2. Does the bidder having the flexibility to virtualize the security control in one server and optimize the assets? 3. As per our understanding, you required the redundancy only for critical SCADA server, not for the Cybersecurity servers. Please confirm if our understanding is correct ? 4. As per the BOQ, no cyber security service is included in the DR center, will all the servers and workstations be authenticated and secured through the cyber security servers of the Main Control Center ? However, It is recommended that DR Center should also have a separate CyberSecurity Server which can authenticate and secure all the servers and workstations locally available.	Redundant Anti virus, and active directory server, 1-patch managemnet, 1- syslog	
231	SECTION 9	424 of 458	C1 Server/ workstation Hardware Data Centre Router	What is the purpose of using the router in the network? Because modern firewalls have the ability to serve as a router, negating the need for another routing device on the network. Therefore can we consider firewall inplace of Routing device?	As per RFP, the bidder has to provide the separate router.	
232	SECTION 9	425 of 458	C2 Software for Control Centre Additional Item 1 Cyber security software -2 qty.	As per the RFP requirement, there are various security software like network intrusion detection, firewall managemnet, AAA, Anti-APT Management etc. Please provide the breakup of 2 cyber security software considered for control center ?	No. may be read a LOT: Redundant - Anti virus and active directory server, 1-patch managemnet, 1- syslog, IPS and IDS shall be available in firewall	

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233	SECTION 9	426 of 458	<u>D1 Server/ workstation Hardware</u>	No CyberSecurity server has been considered in the BOQ. How the servers and workstations in the DR centre will be authenticated and secured ?	These server are common for MCC, BCC and as such complete OT network	
234	SECTION 9	426 of 458	<u>D1 Server/ workstation Hardware</u> Firewall & network IDS/IPS	Could you please share the breakup of 6 firewalls in the DR Center?	Qty considered to 8 (2 internal, 2 external, 2 interfacing with IT and 2 interfacing with MPLS network) all in HA mode.	
235						
236	Section 5.7	PDF 337 of 458	FPI	Details of communicable FPIs is missing. Kindly share the specs of comm. FPI.	Make: Siemens Model No: CSFPI-E-E-x	
237	Section 9	PDF 431 of 458	J3) FPI Communicable No 1900	As per the table RMU qty is 118 and communicable FPI qty is 1900, so where will be extra FPIs utilised ?	New RMU (alongwith communicable FPI) Quantity will be 118, RMU commissioning is a part of system strenthening project however communication of FPIs shall be in ADMS bidders scope. Existing 1900 FPIs already installed at site shall be made communicable.	
238	Section 9	PDF 431 of 458	J3) FPI Communicable No 1900	In the specs only FPI is mentioned, but its input is through CTs. So, do we need to offer 3-phase CTs with FPI ? Kindly clarify.	It is eFPI not FPI	
239	Numerical relays/BCPU / Communication and Cyber-security	PDF 343 of 458	The protection relay shall support RSTP and PRP/HSR redundancy protocols.	For both RSTP and PRP/HSR redundancy there are two ports at relay's rear. But the LAN architecture is different. PRP/HSR require two parallel LAN networks. Therefore, it is requested to modify the requirment as below: The protection relay shall support RSTP or PRP/HSR redundancy protocols.	Relays must be compatible with PRP/HSR.	
240	Numerical relays /BCPU	PDF 343 of 458		The protection function requirement in numerical relays in not mentioned. Generally for Incomer & B/C feeder, relays with 5CT, 4VT, 16DI, 11DO with Directional OC, Directional EF, REF, OV and Sync Check protection functions are used. And for Outgoing feeders relays with 5CT, 10DI, 7DO with OC, EF, Broken Conductor and auto reclose are used. Request you to share the details of protection function required.	Protection relays are part of system strenthening project however integration & testing of the same shall be in ADMS bidder's scope.	
241	Numerical relays /BCPU	PDF 343 of 458		Generally numerical relays have measurments and recording features. Features like disturbance reording, event recording and fault recording is common is numerical relays. Request you to share the details of measurement and recording features needed.	Neumerical reay is part of System strengthening project.	
242	Numerical relays /BCPU	PDF 343 of 458		Since it is BCPU requirement, the breaker controlling feature in device will also be required. Kindly confirm.	Protection relays are part of system strenthening project however integration & testing of the same shall be in ADMS bidder's scope.	
243	Section 9 / (G) Scada Enablers	PDF 431 of 458	Numerical relay /BCPU Nos --	The qty of Numerical relays/BCPU is not mentioned. Kindly share.	Protection relays are part of system strenthening project however integration & testing of the same shall be in ADMS bidder's scope. Tentative quantity of Numerical relays/BCPU will be 1082.	
244	TS for RMU	PDF 431 of 458	BOQ	Kindly share the detailed variant wise quantity for RMUs, i.e., qunatity of 3 way & 5 way RMUs individually.	RMU is a part of system strenthening project however integration & testing of the same shall be in ADMS bidder's scope. Quantity of I/Os and MFTs/relays will be shared through corrigendum.	

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245	TS for RMU	PDF 328 of 458	5. d) Control Voltage -24/48 V DC as per site requirement	We understand that since Aux PT is asked so technically no external control supply shall be provided by BEST up to RMU. We shall be providing Aux PT & battery charger & battery on 24 V DC. Please confirm whether it is Ok for this project.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope. 230 V AC Auxillary supply will be available at RMU site location for the use of FRTU/FPI/ communicating device, etc.	
246	TS for RMU	PDF 328 of 458	5.e) Quantity of RMUs	Kindly share the detailed variant wise quantity for RMUs, i.e., qunatity of 3 way & 5 way RMUs individually.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope. Quantity of I/Os and MFTs/relays will be shared through corrigendum.	
247	TS for RMU	PDF 333 of 458	5.2 & 5.2.2 Left or Right Side Extensible	We shall be considering Overall RMU extensibility to the Right Side of RMU. Left Side of RMU shall have Metering cubicle, & RMU shall be extensible for future connections from Right Side. Please confirm.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope. Quantity of I/Os and MFTs/relays will be shared through corrigendum.	
248	TS for RMU	PDF 330 of 458	5.1 & 5.7 Potential free contact FRTU- Monitor health of power supply, which will include battery failure & low voltage indications	Kindly elaborate on the required contacts from RMU under this clause. Further please share the deatiled list of DI Dos required for FRTU from RMU for clarity.	Quantity of I/Os and MFTs/relays will be shared through corrigendum.	
249	TS for RMU	PDF 336 of 458	5.5.3 FRTU space & battery sizing	We are not considering any space provision for FRTU & its accessories' accommodation in our RMU. Please confirm. Also confirm the battery sizing to be considered for FRTU.	1. RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope. 2. FRTU specs will be shared through corrigendum.	
250	TS for RMU	PDF 336 of 458	5.6 RMU - FRTU Connections	We are considering terminal blocks in LV Box of RMU for potential free contacts needed for FRTU. Further wiring & accessories we are not considering for connection to FRTU. Kindly specify if any specific accessories are required.	FRTU scope and specs will be shared through corrigendum.	
251	TS for RMU	PDF 338 of 458	5.8 Table 3 Rated cable charging interrupting current	Cable charging interrupting current for breaker shall be 25A & for Isolator shall be 10A. Please accept.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope.	
252	TS for RMU	PDF 339 of 458	5.9 & 5.3.2 Tank thickness - Min 2 mm & min 2.5 mm mentioned	Offered RMU tank shall be made of 2/2.5 mm thick stainless steel as per type tested design as per IEC. IEC does not specify any tank thickness, offered tank has successfully passed all IEC type tests with 2/2.5 mm thickness like Internal Arc; Temp rise; Short circuit withstand; Pressure withstand; we confirm leakage rate less than 0.1 % per annum as per IEC. Further we have supplied more than thousands of RMUs with this design working satisfactorily. Hence request to kindly accept the same.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope.	
253	TS for RMU	PDF 343 of 458	5.15 Relay / BCPU	The specs of Relay in RMU call for IEC 61850 protocol. However kindly note that Relay in RMU shall be self-powered type & shall have Modbus communication protocol with RS-485 port. Relay will be connected to FRTU & FRTU will further communicate with SCADA/DMS, hence IEC 61850 for relay in RMU is not required. Please accept Modbus Communication with RS-485 port for self-powered relay in RMU & remaining features of Relay accordingly as per self-powered relays.	1. RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope. 2. Communication protocol between RMU relay and FRTU will be IEC 103/ Modbus.	
254	TS for RMU	PDF 345 of 458	5.19 MFT	We understand MFT are not part of RMU scope & RMU manufacturer need to keep only provision for MFT. Kindly confirm.	Revised BoQ will be shared which will MFT too. It will be a part of FRTU commissioinig.	Page Number -72 Revised BOQ.
255	TS for RMU	PDF 340 of 458	5.9 Internal Arc Classification	Please confirm the Internal Arc Classification requirement with current & time for both Tank & Cable Compartment of RMU.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope.	
256	TS for RMU		FPI	Please confirm the FPI specifications & the Quantity of FPI required in each RMU.	RMU is a part of system strengthening project however integration & testing of the same shall be in ADMS bidder's scope.	

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257	TS for RMU		CT & PT Parameter	Please confirm the requirement of Metering CTs whether required in all functions or only on breaker. Please confirm the Metering CT parameters like CT ratio; Accuracy Class. Please confirm the Protection CT parameters like CT ration & Protection Class. Please confirm the Metering PT accuracy class.	RMU is a part of system strenthening project however integration & testing of the same shall be in ADMS bidder's scope.	
258	TS for RMU		Potential Free contcats of FRTU	Please share the list of potential free contacts required from RMU for FRTU connections.	Quantity of I/Os and MFTs/relays will be shared through corrigendum.	
259	Hardware requirement for SCADA	PDF 213 of 458	g) All panels shall be indoor, dust-proof with rodent protection, and meet IP41 class of protection.	1) Is the specification for Server panel ? 2) It is suggested to have Server panels with IP21 class of protection to have better heat dissipation and further IP21 protection is sufficient for server panels as they are going to be installed in control room. IP41 panel will limit the heat dissipation process and may impact server performance. Hence request you to consider industry standard IP21 Server panels.	Page Number -72 Revised BOQ.	Page Number -72 Revised BOQ.
260	Aux Power Supply System	PDF 301 of 458	Power Supply System Configuration	The block diagram of power supply system is overlapping & is not clear. Please provide clear block diagram There are items like Input ACDB, Output ACDB, Lighting with DG back-up. Please update the BOQ as per the requirement.	Page Number 97	
261	Sec-5, Chapter-4 (Server Rack)	PDF 365 to 376 of 458	TECHNICAL REQUIREMENTS OF SERVER RACK	Please revalidate the requirement specified under this section for Server rack.	Page Number -88 Server Rack Specification.	
262	Hardware requirement for SCADA	PDF 212, 424 & 426 of 458	Video Projection System for MCC (page no. 424): LED Based Video Projection System with 2x3 module configuration with each module atleast 70inch diagonal with common projector Video Projection System for BCC (page no. 426): DLP based Video Projection system with 3x4 Module configuration with each module at least 67" diagonal with common projector MTS (Page no. 212) it is 2X3 module 67".	Specification for VPS for MCC and BCC in BOQ is different. As per MTS (Page no. 212 of 458) it is 2X3 module 67". Please confirm the actual requirement.	LED Based Video Projection System with 2x3 module configuration with each module atleast 70inch diagonal with common projector.	
263						
264	GCC	PDF 439 of 458	12.3 Payments shall be made promptly by the Utility, no later than forty five (45) Days after submission of an invoice or request for payment by the Contractor, and the Utility has accepted it.	Request you to kindly change the period from 45 days to 30 days	It will be same as per SBD issued by PFC.	
265	Tender Information	PDF 3 of 458	3. The PBG shall be forfeited as follows without prejudice to the Bidder being liable for any further consequential loss or damage incurred to RECPDCL: a) Hundred percent (100%) PBG amount furnished, if the Successful Bidder fails to submit deliverables as per scope of work and to the satisfaction of RECPDCL b) Hundred percent (100%) PBG amount furnished, if all-inclusive work are not carried out as specified in the tender document for successful completion of the assignment. c) In all the above cases corresponding uncompleted work shall stand canceled.	We request to modify the point as follows: 3. The PBG shall be forfeited as follows without prejudice to the Bidder being liable for any further consequential loss or damage incurred to RECPDCL: a) Hundred percent (100%) PBG amount furnished, if the Successful Bidder fails to submit deliverables as per scope of work as per tender Specification and to the satisfaction of RECPDCL b) Hundred percent (100%) PBG amount furnished, if all-inclusive work are not carried out as specified in the tender document for successful completion of the assignment. c) In all the above cases corresponding uncompleted work shall stand canceled.	It will be same as per SBD issued by PFC.	

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266	GCC	PDF 442 of 458	15.1 Purchaser shall own and have a right in perpetuity to use all newly created Intellectual Property Rights which have been developed solely during execution of this Contract, including but not limited to all Source code, Object code, records, reports, designs, application configurations, data and written material, products, specifications, reports, drawings and other documents which have been newly created and developed by the Supplier solely during the performance of Related Services and for the purposes of inter-alia use or sub-license of such Services under this Contract. The Supplier undertakes to disclose all such Intellectual Property Rights arising in performance of the Related Services to the Purchaser and execute all such agreements/documents and file all relevant applications, effect transfers and obtain all permits and approvals that may be necessary in this regard to effectively transfer and conserve the Intellectual Property Rights of the Purchaser. To the extent that Intellectual Property Rights are unable by law to so vest, the Supplier assigns those Intellectual Property Rights to Purchaser on creation.	Perputal rights for this clause is not agreeable. Right to use has to terminate upon termination of Agreement	Comply as per RFP	
267	GCC	PDF 444 of 458	16.7 The provisions of GCC Clause 16 shall survive completion or termination, for whatever reason, of the Contract	Survival cannot be for perpetuity, we recommend survival for a ternure of 2 years after completion/termination whichever is earlier.		
268	GCC	PDF 447 of 458	26.1 Except as provided under GCC Clause 33, if the Supplier fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% of the value of the Goods or Related Services, supplied beyond stipulated delivery schedule for each week or part thereof of delay until actual delivery or performance, subject to a maximum of 5% of value of such goods and services.	We request to modify the clause as follows: 1) Except as provided under GCC Clause 33, if the Supplier fails to deliver any or all of the Goods or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5% of the value of the Goods or Related Services, supplied beyond stipulated delivery schedule for each week or part thereof of delay until actual delivery or performance, subject to a maximum of 5% of undelivered value of such goods and services. 2) LD shall be applicable only if the Supplier fails to deliver/perform due to reasons solely attributable to the Supplier. 3) LD shall be the sole and exclusive remedy in case of delay.	Comply as per RFP	
269	GCC	PDF 447 of 458	26.2 In addition, the Supplier is liable to the Purchaser for payment penalty as specified in the SLA.	Please include below point in the clause: The aggregate deduction towards LD/SLA under the contract shall be maximum of 5% of Contract value	The clause mentioned in RFP/SBD shall prevail.	
270	GCC	PDF 447 of 458	26.3 If the Goods and Related Services supplied do not meet the minimum specifications as per the Contract, and the same is not replaced/modified by the Supplier to meet the requirements within 14 days of being informed by the Utility, the Utility shall be free to impose any penalty as deemed fit. In addition, the Utility shall reserve the right to terminate the contract and recover liquidated damages by forfeiting the performance guarantee submitted by the Purchaser.	We request following changes in the clause: 1) We request deletion of the following point "the Utility shall be free to impose any penalty as deemed fit." 2) We request you add following point "Levy of LD at rates provided under this clause to be sole remedy available to the purchaser." 3) Forteiture of PGB is not agreeable, LD can be adjusted against sums due to the supplier.	1. We agree there should be a limit to the penalty 2. Not agreeable 3. Clause 26.3 of RFP shall prevail in this case	
271	GCC	PDF 447 of 458	27.6 If having been notified, the Supplier fails to remedy the defect within the period of warranty specified in the SCC; the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.	Any repairs undertaken by purchaser at its own shall be at purchaser's risk and can invalidate the warranty. Hence request to modify the clause.	We need to explicitly mention the time limit in which we expect the successful bidder to remedy the defect and to ascertain this we need to specify the penalty percentage in case the successful bidder defies the time limit.	
272	GCC	PDF 448 of 458	Survival on Termination The provisions of this Clause 28 shall survive Termination.	We request you to delete this clause as, Indemnity obligation not to survive termination/expiry.	The clause mentioned in RFP/SBD shall prevail.	

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273	GCC	PDF 449 of 458	29.1 Except in cases of gross negligence or willful misconduct : (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer	We request to delete following part of the clause, as LD clause is already part of the tender: "provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Employer"	The clause mentioned in RFP/SBD shall prevail.	
274	GCC	PDF 450 of 458	33.2 Except in case of Force Majeure, as provided under GCC Clause 31 or where the delay in delivery of the Goods or completion of Related Services is caused due to any delay or default of the Purchaser, any extension granted under clause 32.1 shall not absolve the Supplier from its liability to the pay of liquidated damages pursuant to GCC Clause 26.	We request you to add following points in the clause 1) Extension of Time should also entitle bidder to seek addition/prolongation cost alongwith escalation 2) Extension of time without LD should also be available in cases where delays or defaults is for reasons not solely attributable to Supplier.	The clause mentioned in RFP/SBD shall prevail.	
275	GCC	PDF 451 of 458	(ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.	Payment should be made at mutually agreed rates.	The clause mentioned in RFP/SBD shall prevail.	
276	Annexure-1 Payment terms	PDF 457 of 458	10% of total value of contract as (excluding FMS and Bandwidth Charges) "Mobilization Advance" after signing the contract. The following shall be ascertained before release of payment:- • Opening of site office in project area • Submission of necessary Bank Guarantee for the 110% of Initial Advance (Interest bearing) • Submission of the necessary Contract Performance Bank Guarantee. The same will be released on completion of contract/assignment. • Submission of agreed project implementation schedule	1) As advance has interest bearing on it, in case SIA doesn't want to avail it, how the said payment will be made to SIA is not clear in the Payment terms. 2) Request you to remove interest on advance payment.	Comply as specified in RFP	
277	ITB	PDF 18 of 458	13.3.1. Price Schedules should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes (except GST.), duties (excise & customs, etc), octroi, fees, levies, works contract tax, Entry tax and other charges as may be applicable, to be paid pre- or post-delivery or to be deducted by the Utility at source, in relation to the Goods and Related Services. Such taxes, duties, cess, charges etc, if not explicitly mentioned in the Price bid tables in Appendix C3, but applicable under law, should be included in the Quote under "Any other levies" column.	We understand BoCW cess is not applicable, as there is no building construction work involved in this tender/contract. Please confirm.	Comply as specified in RFP	
278		PDF 17 of 458	Further, The Bidder shall quote rate and applicable GST for each item in the relevant field of Excel BOQ template (Price Bid) . The Excel BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns. If agency does not mention any GST rate, it will be treated that GST is inclusive in the quoted Basic Rate. In case the bidder is exempted from GST, bidder has to produce valid Exemption Document. If not produced, it will be treated that GST is inclusive in the quoted Basic Rate. <Utility to amend this clause in line with the tendering portal provisions>			

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279	RFP	PDF 18 of 458	13.3.1. Price Schedules should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes (except GST.) , duties (excise & customs, etc), octroi, fees, levies, works contract tax, Entry tax and other charges as may be applicable, to be paid pre- or post-delivery or to be deducted by the Utility at source, in relation to the Goods and Related Services. Such taxes, duties, cess, charges etc, if not explicitly mentioned in the Price bid tables in Appendix C3, but applicable under law, should be included in the Quote under "Any other levies" column.	1) There is no Excel BOQ along with Tender. The price bid BOQ available in Tender does not have separate field for GST as mentioned in clause no. 12.2 (Page no. 17 of 458) 2) Please confirm whether contract value is inclusive of GST or GST is extra.	1. Revised BoQ will be shared through corrigendum. 2. Contract value is inclusive of GST	Revised BOQ and Revise Price Bid has been attached in Corrigendum.
280		PDF 46 of 458	(c) The total price of our Bid is quoted in online tendering portal. Our quoted prices are inclusive of all taxes and duties except GST (Utility to check compatibility of the tendering portal regarding GST).			
281		PDF 76 of 458	Price Schedule Forms (Form-2) Per Unit Cost (incl taxes & duties)			
282	SCC	PDF 456 of 458	GCC 13.3: The Supplier shall provide Performance Security of three (03) percent of the total Contract Price.	At some other section of the Tender, Performance Security (PBG) is mentioned as 10%. However as per SCC, we understand it is 3% inline with GoI guidelines of reduced performance security of 3% which is extended up to March 31, 2023 by GoI.	1. A per SCC 3% performance security of total contract value is being asked in the form of bank guarantee. 2. Submission of necessary Bank Guarantee for the 110% of Initial Advance which will be 10% of total contract value. Both these points are independent of each other.	
283	GCC	PDF 450 of 458	32 Change Orders and Contract Amendments	Request you to include following in the clause: Supplier also has a right to request for change order.	Comply as specified in RFP	
284	GCC	-	New Clause to be added	New clause to be added Suspension Rights: If the Employer fails to comply with the provisions of this Contract, the Contractors may, after giving not less than 14 days' notice to the Employer, suspend work or reduce the rate of work. If the Employer subsequently cures the failure as specified in the notice, the Contractors shall resume normal working as soon as is reasonably practicable. If the Contractors suffers delay and/or incurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractors shall give notice to the Employer and shall be entitled to an extension of time for any such delay, if completion is or will be delayed and payment of any such Cost, which shall be included in the Contract Price. If the suspension under this Sub-Clause continues for a continuous period of 60 days then the Contractors may, upon giving 14 days' notice to the Employer, terminate the Contract. Upon such termination, Contractors shall be entitled to payment of amounts for the works already carried out and all other incidental costs reasonably incurred including costs of material already ordered or under production, cost of demobilizing and liabilities due to vendors and sub-contractors of the Contractors.	Comply as specified in RFP	

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285	GCC	-	New Clause to be added	<p>New clause to be added</p> <p>Termination Rights: The Contractor can terminate/ cancel the Contract with prior written notice of 30 days to the Employer for any of the following reasons:- a) Insolvency, receivership or bankruptcy proceedings are commenced by or against the Employer; b) Contractor's payment are withheld /suspended beyond reasonable time limit; c) Employer fails to fulfil its contractual obligations d) Any material breach or representations or warranties made was false or intentionally misleading when made. e) Employer assigns or transfers the Contract or any right or interest herein other than in accordance with the Contract. f) Persistently fails to timely comply its obligations including approval/ certifications of drawings, documents, measurements or other inputs. g) The occurrence of Force Majeure event continues for 3 months or above. h) Employer fails to take delivery of material due to whatever reasons for more than 3 months. i) Repetitive suspension of work due to reasons attributable to Employer. j) A change in Law of any Government Authority, where performance of contractual obligations are not feasible or possible. k) Employer fails to provide encumbrances free land for Project work or access or approach is restricted.</p>	Comply as specified in RFP	
286	GCC	-	New Clause to be added	<p>New clause to be added</p> <p>COVID-19 Disclaimer: Purchaser acknowledges that the GOODS supplied or Services performed or any part thereof may be produced in, sourced from, require personnel from or may otherwise be installed or performed in areas that may at any time be affected by the prevailing COVID-19 pandemic and that the situation may trigger stoppage, hindrance or delays in SIA's (or its SUBCONTRACTOR'S) capacity to perform, produce, deliver, install or service the WORKS, irrespective of whether such stoppage, hindrance or delays are due to measures imposed by authorities or deliberately implemented by the SIA (or its SUBCONTRACTOR's) as preventive or curative measures to avoid harmful contamination exposure of SIA's (or its SUBCONTRACTORS') employees. Purchaser, therefore recognizes that such circumstances shall be considered as a cause for excusable delay not exposing the SIA to contractual sanctions including without limitation delay penalties, liquidated or other damages or termination for default."</p>	Comply as specified in RFP	

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287	GCC	-	New Clause to be added	<p>Following new clause to be added.</p> <p>Trade Control Compliance: Purchaser to comply with related applicable US, E.U. and other national and international export control laws and/or regulations and agrees to sign the End User Certificate in this regard. Hence Please add the following clause:</p> <p>"The deliverables provided by the Associate under this agreement contain or may contain components and/or technologies from the United States of America ("US"), the European Union ("EU") and/or other nations. Purchaser acknowledges and agrees that the supply, assignment and/or usage of the products, software, services, information, other deliverables and/or the embedded technologies (hereinafter referred to as "Deliverables") under this agreement shall fully comply with related applicable US, EU and other national and international export control laws and/or regulations. Unless applicable export license/s has been obtained from the relevant authority and the Associate has approved, the Deliverables shall not (i) be exported and/or re-exported to any destination and party (may include but not limited to an individual, group and/or legal entity) restricted by the applicable export control laws and/or regulations; or (ii) be used for those purposes and fields restricted by the applicable export control laws and/or regulations. Purchaser also agrees that the Deliverables will not be used either directly or indirectly in any rocket systems or unmanned air vehicles; nor be used in any nuclear weapons delivery systems; and will not be used in any design, development, production or use for any weapons which may include but not limited to chemical, biological or nuclear weapons. If any necessary or advisable licenses, authorizations or approvals are not obtained, whether arising from inaction by any relevant government authority or otherwise, or if any such licenses, authorizations or approvals are denied or revoked, or if the applicable export control laws and/or regulations would prohibit Associate from fulfilling any order, or would in Associate's judgment otherwise expose Associate to a risk of liability under the applicable export control laws and/or regulations if it fulfilled the order, Associate shall be excused from all obligations under such order and/or this agreement".</p>	Comply as specified in RFP	
288	GCC	-	New Clause to be added	<p>Following new clause to be added.</p> <p>RMI Impact Clause: All or part of the products and/or the services to be delivered and/or performed, according to the present offer/contract ("Supplies") are produced, delivered, performed in, and/or sourced from areas that are or may become affected by the COVID-19 pandemic (including variants) and/or a shortage or interruption or delay in the transportation or procurement of raw materials, power and/or components ("Circumstances").Such Circumstances, even if known at the time of issuing or signing the present offer/contract, may trigger stoppage, hindrance or delays in the Contractor's ability to produce, deliver, perform and/or source the Supplies. Consequently, notwithstanding any other provision of the contract or order:</p> <p>(a) The delivery schedule, performance schedule and/or lead times shall be deemed to be indicative and are provided for information purposes only. The Contractor shall inform the Employer of any changes.</p> <p>(b) Such Circumstances shall be considered as a cause for excusable delay. The Contractor shall not be liable for any claims, costs or losses resulting from such delays including, without limitation, for delay penalties, liquidated or other damages. In addition, such delays shall not constitute grounds for termination for default.</p> <p>(c) If such Circumstances render the performance of the contract or order burdensome and/or more onerous for the Contractor (including increased costs to perform), both parties shall meet to adjust the contract or order conditions, including pricing and scheduling conditions. In the event that the parties are unable to agree such adjustments within [30 days] of a request for a meeting from the Contractor, the Contractor shall be entitled to terminate the affected contract or order, without liability. In such case, the Contractor shall be paid for all Supplies then already delivered or performed.</p>	Comply as specified in RFP	