

Pre Bid Technical Clarification No.3 dtd 16.03.2026 to NIB No.486 dtd 08.01.2026 for EPC execution of Power House EM Works of 186MW Tato-I HEP.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
1	Vol-I, Sec-IX	20/132	8.14	Fibre Optic cable (ADSS) from power house to remote sites with all accessories for complete FO communication and including all hardware for laying etc.	Distance/ length of OFC cable required for communication between remote sites from Power House. PLs Reply	Since site survey is under the scope of the bidder, the required cable route length shall be assessed by the bidder during site visit and lay out drawings provided. However, the distance between the Power House and intake shall be approximately 5 Km.
2	Volume II Section-II	46/952	1.4.19	Vibration monitoring system: One (1) no. of common vibration monitor shall be supplied for monitoring the vibration level of Generator as well as Turbine points at a single location. All the vibration sensors of Turbine & Generator points shall be connected to this common vibration monitor.	One (1) for turbine and generator of one unit (1 for each unit) or Turbine and generator of all 3 units (1 for all 3 units). Kinldy Confirm	Common for all 3. However, the bidder may offer sepertae sets for each TG unit as per their standard design.
3	Volume II Section-II	237/952	2.4 2.4.2.5	Static Excitation System: The excitation equipment shall comprise of Excitation power transformer, thyristor rectifier banks, filter circuits, field circuit breaker with discharge resistor, field flashing controls, dual channel hot redundant automatic and one manual channel voltage regulator Automatic Voltage Regulator (2A + 1M))	We offer dual redundancy for manual channel also and offer 2 auto channel with inbuilt manual channels. This is as per current industry trends and all recently supplied systems by Bidder. Kinldy Confirm.	Agreed. The excitaion system shall be provided with 2 (two) auto channels (Auto-I and Auto-II) for automatic voltage regulation, excitaion control and indication. Each channel shall be equipped for auto operation with facility of selecting either channel in " Auto " or "manual" mode.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
4	Volume II Section-II	325/952	7.1	7.1 SCOPE An Optic Fiber communication system between the Control Room and the remote locations. The Fiber Optic cable shall be supplied and laid under this package and shall be terminated, tested and commissioned by the Contractor;	Distance for oFC cable laying between control room and remote location(s) PLs reply	Since site survey is under the scope of the bidder, the required cable route length shall be assessed by the bidder during site visit and lay out drawings provided. However, the distance between the Power House and intake shall be approximately 5 Km.
5	Volume II Section-II	326/952	7.1	Further, The Tato-I HEP and The Heo HEP (The Tato-I HEP is located at the downstream of the Heo HEP) will operate in Tandem operation. The contractor must meet the following conditions for the tandem operation of hydro power plants: - Dual and Positive communication link to be available between both plants. This is required for VOICE, DATA and CONTROL COMMAND to and fro transfer (both ways). Duel Fibre link to be established (2 separate FO cable). OPGW and OPGW terminal equipment shall not be within present scope of work. Required interfacing with OPGW terminal equipment shall be within the contract scope.	1. Whether OFC between HEO HEP and Tato-I HEP will be laid over ground , underground or alongside the tail race tunnel? Please clarify. 2. Tandem operation requires logic modification, additional hardwares etc. in the existing/Upcoming DCS/SCADA system of Tato-I HEP. The same can only be done by the OEM of the above SCADA system. Employer to assign this work to Tato-I HEP SCADA OEM during execution. Please confirm.	Please refer to the Clause No. 7.1 of Sub-Sec-07, Vol-II, Sec-II wherein it is mentioned as below: ".....for communication of Voice, Data & Control command between the two stations, two nos. Optical fibre cable (OFC) between the two stations is not included in the scope of this package....."
6	Volume II Section-II	340/952	7.3.2	Copyrights and Software Licenses: The Contractor shall submit a full copy of the application software updates once a month until the warranty period expires to the Employer and / or its designee to be kept in case of force major events or bankruptcy of the Contractor.	Application software updates shall be provided quarterly as per industry norms for a period of 12 months or till warranty expires (whichever is earlier) Please confirm.	Accepted.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
7	Volume II Section-II	344/952	7.3.5	Design Requirements: f. The PCS shall include as a minimum the following subsystems (per Unit): 2. One Unit Control Station including the Operator Work Station, the server, a dedicated large-scale video display screen as shown on the PCS block diagram;	This clause is asking for a separate server for all units. Pls confirm if One (common) EWS is required for all 3 units or each unit needs to have its own separate EWS. Pls Reply	Engineering Work Station -1 no. Portable EWS-1 no.
8	Volume II Section-II	344/952	7.3.1	Components Details: f. Control Room: Control Room top quality Heavy Duty furniture including desks, tables, stands, cabinetry and chairs. The furniture shall include accommodation for Work Stations and equipment provided herein and by others including: the Operator Work Stations c / w 2-22" screens (OWS1,2,3), the Large Video Screen Work Station (LVSWS), the Historian Work Station (HWS), the SCADA Engineering Work Stations (EWS1,2), the Energy Management Work Station (EMS), the Zoom Processor Vibration Analysis Work Station (ZCS), the closed circuit TV Work Station c / w 2-22" screens (CCTV), the three desktop printers c / w routers, Voice over IP (VoIP) Router Cabinet and filing cabinetry in the location shown on the arrangement drawing;	1. Details of stands, cabinetry shall be required 2. Details of Other equipments shall be listed (Desk/Table/cabinet with dimension) 3. The Zoom Processor Vibration Analysis Work Station (ZCS): Kindly explain this system and furniture requirement details	To be decided during detail engineering.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
9	Volume II Section-II	352/952	7.3.6.1 13(b) iii	Operator Workstations (OWS): IEEE1394 port; Dedicated Video Card with two (2) HDMI and one (1) DVI ports to support 1920x1200 resolution; The two (2) HDMI ports on the video card shall be used for dual monitor setup and the DVI port for the Large Monitor (2 x 2 video matrix).	1. IEEE1394 port is a very uncommon port and is not used for any application. Suitable converters shall be supplied. Kindly Confirm 2. OEM recommended NVidia T400 or latest PCI-Express Dual Output Graphics card with full 16X support, with minimum 4 GB RAM, supporting 1920 x 1200 resolution with true colors with mDP to DP adapters – 2 nos, shall be inbuilt part of WS/EWS. 3. Necessary miniDP to DVI/HDMI converters shall be provided in place of inbuilt HDMI/DVI port. Kindly confirm	To be decided during detail engineering.
10	Volum-II Section -II Sub Sec.6: Isolated Phase Busduct & Associated Equipment	3 of 27	6.1	The scope shall broadly include all items required starting from Generator terminals up to terminals / bushings on Generator Transformers including Potential Transformer & Surge Protection (PTSP / LAVT) Panel, Excitation Transformer, Unit Aux. Transformer (UAT) and Neutral Grounding Transformer (NGT) Cubicle.	UAT is not appearing in price schedule. We understand that UAT is not in the scope of bidder. Kindly confirm.	Confirmed.
11	Volume II Section-III	4	2	r) HVAC System for Powerhouse	Bidder understand that HVAC system for GIS Hall and Pot Head yard is not in scope of Bidder. If HVAC system is Bidders scope then, Purchaser needs to provide Heat Load Data for design and Estimation purpose.	Both GIS hall and Transformer hall are included in the scope of HVAC system, the heat load to be calculated accordingly by the bidder.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
12	Volume II Section-III	4	2	u) EOT crane of 10 T capacity for erection and maintenance of GIS equipment. The crane shall be capable of lifting equipment from the rails of transformer enclosure.	As the main GIS supply is not part of Tender, it is proposed to delete EOT crane for GIS from Bidder's scope	Bid stipulations shall prevail.
13	Volume II Section-III	8	5.3	Gas Insulated Switchgear room AC Distribution Board (GIS-ACDB)	It is proposed to delete Gas Insulated Switchgear room AC Distribution Board (GIS-ACDB) from Bidder's scope since the main GIS supply is not part of Tender. AC & DC Feeder Details are not available in Tender Drawing of Boards, hence It is not feasible to estimate the competitive cost . The AC & DC Boards for GIS should be part of GIS Package.	Bid stipulations shall prevail.
14	Volume II Section-III	13	7.4	GIS Protection Board (LPB):	It is proposed to delete GIS Protection Board from Bidder's scope. It is will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The GIS Protection Board for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
15	Volume II Section-III	13	7.5	Bus Protection containing: (BPB)	It is proposed to delete Bus Protection containing: (BPB) from Bidder's scope. It is will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The Bus Protection containing: (BPB) for GIS should be part of GIS Package o reduce interfacing issues.	Bid stipulations shall prevail.
16	Volume II Section-III	13	7.6	Line Metering Board	It is proposed to delete Line Metering Board from Bidder's scope. It is will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The Line Metering Board for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.
17	Volume II Section-III	13	7.7	Common RTU Board	It is proposed to delete Common RTU Board from Bidder;s scope. It is will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The Common RTU Board for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
18	Volume II Section-III	14	7.9	GIS and Pot Head Yard Protection Engineering Workstation as per Technical Specifications	It is proposed to delete GIS and Pot Head Yard Protection Engineering Workstation as per Technical Specifications from Bidder's scope. It will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The GIS and Pot Head Yard Protection Engineering Workstation as per Technical Specifications for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.
19	Volume II Section-III	14	7.10	Portable Engineering Work Station as per Technical Specifications	It is proposed to delete Portable Engineering Work Station as per Technical Specifications from Bidder's scope. It will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . Portable Engineering Work Station for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.

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20	Volume II Section-III	14	7.11	Protection Operating Work Station as per Techn	It is proposed to delete Protection Operating Work Station as per Technical Specifications from Bidder's scope. It is will require considerable amount of interface details from GIS supplier. Since the main GIS supply is not part of Tender. hence, It is not feasible to estimate the competitive cost . The Protection Operating Work Station as per Technical Specifications for GIS should be part of GIS Package to reduce interfacing issues.	Bid stipulations shall prevail.
21	Volume II Section-III	17	11.3	LT Power Cables: 1100 V grade, multi-core, HR PVC/XLPE insulated, PVC sheathed (inner and outer extruded), stranded compacted circular cross-section, FRLS Type, rodent proof, copper conductor of different sizes.	Bidder understand that LT POWER & Control Cable connecting either one end or both ends to GIS equipments/POT head Yard Equipment's are not in scope of Bidder. The Cabling/Tray system of GIS should be part of GIS package to avoid interface issues and optimised quantity estimation.	Please refer Clause no. 13.1 of PTS (Vol-II, Sec-II, Sub sec-13) for detail scope.
22	Volume II Section-III	17	11.4	Control Cables: Control Cables - 1100 V grade, stranded copper conductor, PVC insulated, FRLS Type, rodent proof, colour coded with inner sheathed extruded PVC over all PVC sheathed of different sizes and cores.	Bidder understand that LT POWER & Control Cable connecting either one end or both ends to GIS equipment's/POT head Yard Equipment's are not in scope of Bidder. The Cabling/Tray system of GIS should be part of GIS package to avoid interface issues and optimised quantity estimation.	Shall be in the Bidder's scope. Please refer Clause no. 13.1 of PTS (Vol-II, Sec-II, sub sec-13) for detail scope.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
23	Volume II Section-III	17	11.6	Cable Accessories: Termination Kits, Lugs (tinned copper Lugs), Glands, Ferrules etc.	Bidder understand that LT POWER & Control Cable connecting either one end or both ends to GIS equipments/POT head Yard Equipments are not in scope of Bidder. The Cabling/Tray system of GIS should be part of GIS package to avoid interface issues and optimised quantity estimation.	Bid stipulations shall prevail. Cable accessories shall be in the scope of the bidder.
24	Volume II Section-III	17	12	CABLE TRAYS	Bidder understand that LT POWER & Control Cable connecting either one end or both ends to GIS equipments/POT head Yard Equipments are not in scope of Bidder. The Cabling/Tray system of GIS should be part of GIS package to avoid interface issues and optimised quantity estimation.	Shall be in the Bidder's scope. Please refer Clause no. 14.1 of PTS (Vol-II, Sec-II, sub sec-14) for detail scope.
25	Volume II Section-III	17	13.1	Illumination System (Normal & Emergency) for Power House area, outdoor areas around power house, pothead yard area, approach road and remote sites (HRT intake & Valve house areas), complete with LED lighting fixtures, conduits and fittings, cabling and distribution boards (MLDBs & ELDBs, LDBs). It shall also include illumination of road near Power House & the two remote sites.	Bidder understand that Illumination System GIS Hall and Pothead yard are not in scope of Bidder. Please confirm.	Shall be in the Bidders's scope. Please refer Clause no. 17.1 of PTS (Vol-II, Sec-II, sub sec-17) for detail scope.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
26	Volume II: Section-II PTS Sub-Sec. 02 Generator and Excitation System	48 OF 72 55 OF 72 59 OF 72	2.4.1.7 (Operating Conditions) A.Local & Remote Control 2.4.2.5 (Automati c Voltage Regulator (2A + 1M)) C.	In the Manual position the Synchronizer will interlock with the Generator Circuit Breaker control to insure safe operation. For steady-state conditions with the generator circuit breaker open, the regulator shall maintain the generator terminal voltage at or below 105% of its rated for speeds ranging from rated speed up to an over speed of 120% rated speed After tripping the generator circuit breaker, the opening of field breaker shall connect the discharge resistor.	In the referred clauses, Generator Circuit Breaker has been mentioned. However, In the Powerhouse & Substation Main Single Line Diagram no. WAP/HEO/E&M/TD/12, Generator Circuit Breaker (GCB), between Generator & GT, is not mentioned . Also, there is no sub-section/scope of work for Generator Circuit Breaker in the tender technical specification. Accordingly, requirement of GCB does not prevail & is not being considered by the bidder in their scope.	This refers to the Circuit breaker in 220 kv side. There is no circuit breaker between Generator and Generator Transformer.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
	<p data-bbox="219 204 241 228" style="text-align: center;">&</p> <p data-bbox="168 357 293 459">Vol-II Sec-IV_Tender Drawings.</p>		<p data-bbox="450 172 568 272">Components and Operation</p> <p data-bbox="450 395 568 762">2.4.2.7 (Control Protection , Alarms and Metering) F. De-excitation (Negative Excitation)</p>			

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
27	Volume II: Section-II PTS Sub-Sec. 08 Protection and Metering & Vol-II Sec-IV_Tender Drawings.	114 OF 160 115 OF 160 154 OF 160	8.1.7 (Tripping Logic) c- Generator Protection-A (located in UPB-1 to 3) 8.1.7 (Tripping Logic) d- Generator Protection-B (located in UPB-1 to 3) 8.5 Operation and Maintenance Manuals	Note-2: Trip Generator Circuit Breaker (86 relays located in UCB) Note-2: Trip Generator Circuit Breaker (86 relays located in UCB) generator circuit breaker start-stop commands	In the referred clauses, Generator Circuit Breaker has been mentioned. However, In the Powerhouse & Substation Main Single Line Diagram no. WAP/HEO/E&M/TD/12, Generator Circuit Breaker (GCB), between Generator & GT, is not mentioned. Also, there is no sub-section/scope of work for Generator Circuit Breaker in the tender technical specification. Accordingly, requirement of GCB does not prevail & is not being considered by the bidder in their scope.	This refers to the Circuit breaker in 220 kv side. There is no circuit breaker between Generator and Generator Transformer.

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28	VO-II, SECTION-2, SUB SEC 7: UNIT CONTROL, SCADA, AUTOMATIO N & COMMUNICA TION	94 OF 107	7.4	a) In this specification, the term “Remote Sites” refers to the following project sites located outside the Powerhouse: <ul style="list-style-type: none"> • Intake Area; • Valve house area • Heo Power House 	<p>1. Kindly furnish the following distance:</p> <p>a. Between Heo Power House to Intake area</p> <p>b. Between Heo Power house to Valve house area</p> <p>2. Please inform the Method of laying (i.e. buried underground/ overhead by pole) OFC between Power House to Dam Building.</p> <p>3. We understand that the OFC cable between Power House to Barrage /Dam Building shall be direct buried & steel pole for Overhead OFC cable is not applicable & not required. Kindly confirm acceptance.</p>	Please refer to our reply to query no. 4 & 5 above.
29	VO-II, SECTION-2, SUB SEC 7: UNIT CONTROL, SCADA, AUTOMATIO N & COMMUNICA TION	94 OF 107	7.4	b) The communication link between Tato-1 and Heo HEPs shall be established for tandem operation of both the power stations.	<p>1. Kindly furnish the distance between Tato-1 and Heo HEP.</p> <p>2. Please inform the Method of laying (i.e. buried underground/ overhead by pole) OFC between Power House to Dam Building.</p> <p>3. We understand that the OFC cable between Power House to Barrage /Dam Building shall be direct buried & steel pole for Overhead OFC cable is not applicable & not required. Kindly confirm acceptance.</p>	Please refer to our reply to query no. 4 & 5 above.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
30	VO-II, SECTION-2, SUB SEC 13: POWER AND CONTROL CABLES	03 OF 13	13.1	HT Cable 11 kV, if required, stranded Aluminum Conductor, XLPE insulated, FRLS cables,	We understand that 11kV cable is not required as per Tender SLD. Kindly confirm acceptance.	Confirmed.
31	TENDER DRAWING	14 OF 18	DRG. NO.- WAP/HEO /E&M/TD/ 13		We understand only the following 33KV Cables are required. Kindly furnish the tentative route distance between the following: 1. 220/33kV transformer (SST) to 33kV Power Supply Board (MVSSB)-1 No. 2. 3kV Power Supply Board (MVSSB) to 33/0.433kV, 160KVA transformer - 2 No. 3. 33kV Power Supply Board (MVSSB) to 33/0.433kV, 1.5MVA (SSAT) - 2 No. 4. 33kV Power Supply Board (MVSSB) to Local/ Colony Dist Boards -2 Nos. 5. 33kV Power Supply Board (MVSSB) to take- off point for overhead line to Valve house - 1 No. 6. 33kV Power Supply Board (MVSSB) to take- off point for overhead line to Barrage area - 1 No.	The following cables shall be required and the distance may be assessed from the layout drawings provided. 1. 220/33kV transformer (SST) to 33kV Power Supply Board (MVSSB)-1 set. (Double run) 2. 33kV Power Supply Board (MVSSB) to 33/0.433kV, 1.5MVA (SSAT) - 2 Set. 3. From 33kV panel to Pole structure near power house for Intake and Valve House power supply through overhead 33 kV line- 1 set. 4. From Pole structure near Valve House to Valve house transformer- 1 set. 5. From Pole structure near Intake to Intake transformer- 1 set

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
32	VO-II, SECTION-2, SUB SEC 14: CABLE TRAYS	04 OF 11	14.3.1	Cable trays shall have standard width of 300 mm, 600 mm & 750 mm and standard lengths of 3.0 meter	1. Cable tray shall have the standard width of 150mm, 300mm, 450mm and 600mm. Kindly confirm acceptance. 2. As per bidder practice, Standard length of cable cable tray is 2.5Metre. Kindly confirm acceptance.	To be decided during detail engineering.
33	VO-II, SECTION-2, SUB SEC 14: CABLE TRAYS	04 OF 11	14.3.1	Ladder type trays shall have a rung spacing of 300 mm for power cable application and 150 mm for control and communication cables.	As per bidder standard practice, rung spacing of Ladder type trays shall be 250 mm. Kindly confirm acceptance.	To be decided during detail engineering.
34	VO-II, SECTION-2, SUB SEC 14: CABLE TRAYS	08 of 11	14.5	Cable shall be terminated using double compression type cable glands.	Double compression type cable gland shall be used only for armoured cable. For unarmoured cable single compression gland is used. Kindly confirm acceptance.	Bid stipulations shall prevail.
35	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 14 of 43	11.7 DC Distributio n Boards	Each DC distribution board shall comprise motor operated molded type circuit breakers	We understand that Motor operated MCCBs are required only for incomer breaker of main & Sub DCDBs. For outgoing breakers of Various DCDBs & sub-DCDBs manual operated MCCB's shall be required.	Incomer of main and sub DCDBs shall be motor operated MCCBs. For all outgoing feeders manual operated MCCBs shall be provided.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
36	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 21 of 43	11.8.5 Tests	Each cell and the complete battery shall be subjected to the following acceptance tests In accordance with relevant standards in presence of the Purchaser's representative. i. Test for capacities of individual cells and complete battery; ii. Dimensional checking of plates; iii. Visual inspection; iv. Endurance Test.	Factory acceptance test shall be carried out on sampling plan (2 cells per lot). It is not recommended or possible to test each & every cell during Factory acceptance test. Also endurance test (type test) is carried out on Prototype cell. Type test Reports for the same shall be submitted during document approval as per Applicable IS.	Bid stipulations shall prevail. However, the bidder may optimise during detailed design after approval of purchaser.
37	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 14 of 43	11.8.5 Tests	Type test The batteries shall have been type tested to meet the performance requirements for design and AH rating of cells as per IEC standard certified copies of the test reports for the following type tests shall be supplied for the approval of the Purchase	Type test reports for tests as per IS 1652 for Plante batteries & IS 10918 for Ni-cd batteries can be submitted for customer approval. It shall not be possible to arrange test reports for various tests not listed in applicable IS for Plante/Ni-cd batteries.	Bid stipulations shall prevail.
38	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 23 of 43	11.11 Data Sheets - DC System	...Type : Plante type battery/ Ni Cd type battery AH (Minimum) : 1000 AH for 8 hr for 220 V DC...	Battery manufacturer's specify capacity only for 10hrs. (C10 rating only); we understand that it is 1000Ah for 10hrs?, Please clarify?	Bid stipulations shall prevail. However, same can be discussed during detailed engineering.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
39	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 25 of 43	11.11	DC Application Nominal Voltage : 220 V DC or 48 V DC Duty : Continuous Continuous Current Rating : As required No. of Poles : 2 Ultimate and Service Breaking Capacity : 35kA for 220 VDC and 20 kA for 48V DC Aux. contacts for ON and TRIP : Required (2 NO and 2 NC contacts) Door operating handle : Required	For DC application Short circuit rating of MCCBs (35kA for 1 Sec) is on very higher side. Same should be 10kA for 1 sec for O/G feeders.	Bid stipulations shall prevail.
40	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 36 of 43	11.15 240 V AC / 24 V DC Converter & Distribution board	Some instruments and communication equipment at remote site require a 24 V DC source, in this case the Contractor is responsible to install the 240 V AC / 24 V DC converter and 24 V DC distribution board to ensure a stable and reliable power source to the aforementioned devices	24V DC power supply requirement for various instruments and communication equipment covered in this contract shall be taken care at our end. However, if 24V DC supply is required for Items not part of this contract, Converter/DCDB for the same shall not be in bidder scope. If same is required, details for the same to be shared.	Bid stipulations shall prevail.
41	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 38 of 43	11.16 Technical Specifications of 25 KVA and 6 KVA UPS System	Display and Controls	Display of controls in Inverter can only be provided as per standard design of inverter manufacturer. Parameters like Battery voltage, Battery charger/discharge current, etc are not applicable for inverter powered by 220V DCDB. Please accept.	Bid stipulations shall prevail.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
42	Volume II: Section-II PTS Sub-Sec. 11 DC System & UPS System	Page 36 of 43	11.16 Technical Specifications of 25 KVA and 6 KVA UPS System	Input voltage tolerance +10 %, -15%	As per standard practice of various manufacturers of inverter/UPS, input voltage variation is allowed +10 %, -10% only. Please accept.	Bid stipulations shall prevail.
43	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	3 OF 27	12.1.1	800 kVA, 50 Hz alternator with exciter, automatic voltage regulator etc. for installation at Power House.	Only 01 (one) no of 800KVA, 415V DG set seems on lower side for the Power house. Customer may review the same.	Bid stipulations shall prevail.
44	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	8 OF 27	12.5	The engine shall be capable of delivering an output of 10% in excess of its rated output at its rated speed for a period of one hour in any period of 12 hours consecutive running, without undue heating of the engine or any other mechanical part.	Feasibility of provision for overspeed for a period of an hour in any 12 hours shall be strictly as per standard design of manufacturer. Kindly confirm acceptance.	Bid stipulations shall prevail.
45	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	8 OF 27	12.6.1.1	Engine starting system shall have electric motor with suitable lead acid battery and static battery charger.	The Type of Battery shall be strictly as per standard design of manufacturer. Kindly confirm acceptance.	confirmed.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
46	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	10 OF 27	12.6.1.2.ii	Individual diesel oil day storage tank (day tank) of capacity sufficient to house fuel required for 8 hours of continuous running of DG set at 100% load.	It is proposed that the individual fuel tank/ day fuel Tank shall be 990 Liter for 500KVA DG set & 490 Liter for 250KVA DG Set in line with standard norms. Kindly confirm acceptance.	Accepted.
47	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	13 OF 27	12.6.1.8	6 nos. RTDs and one anti condensation heater wired to a separate terminal box.	Numbers of RTDs shall be strictly as per standard design of manufacturer. Kindly confirm acceptance.	To be decided during detail engineering.
48	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	17 OF 27	12.6.4	Alarm/ Automatic Shutdown	Feasibility of provision for specific arrangement of Alarms System shall be strictly as per standard design of manufacturer. Kindly confirm acceptance.	Bid stipulations shall prevail.
49	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	17 OF 27	12.6.4	Automatic shutdown shall be under following conditions: Very high engine temperature	We understand that very high engine temperature is "very high water (Water jacket around engine) temperature ". Kindly clarify and confirm.	confirmed

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
50	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	17 OF 27	12.6.4	Automatic shutdown shall be under following conditions: High oil temperature; Over Crank (fail to start)	Feasibility of provision for high oil temp & Over cranking shall be strictly as per standard design of manufacturer. Kindly confirm acceptance.	Bid stipulations shall prevail.
51	Volume II: Section-II PTS Sub-Sec. 12 Emergency Diesel Generator Sets	19 OF 27	12.6.5	All protection equipment i.e. reverse power relay & reverse kVAR relays with suitable ranges, frequency relay, under voltage relay, frequency relay, instantaneous and IDMT over current relay, generator differential / REF protection, earth fault relay etc. and any other relays to satisfy the clause "Automatic Shutdown" of this section;	Feasibility of provision for Earth fault protection shall be strictly as per standard design of manufacturer. Kindly confirm acceptance	Bid stipulations shall prevail.
52	Volume II Section-II Sub-Sec. 18 Electrical Workshop	06 OF 16	18.4.1.1.V	Digital Multimeters for AC and DC: current :1.5 mA...30 A in several steps;	Standard Current range for multimeter is up to 20 Amp and available with various reputed makes. We request to accept the maximum up to 20 Amp instead of 30A. Kindly confirm acceptance.	Bid stipulations shall prevail.
53	Volume II Section-II Sub-Sec. 18 Electrical Workshop	15 OF 16	18.4.1.4. VIII	portable type silt measuring instruments	We understand the instrument is portable SILT DENSITY INDEX TEST KIT. Kindly confirm acceptance.	Bid stipulations shall prevail.
54	Volume II Section-II Sub-Sec. 18 Electrical Workshop	15 OF 16	18.4.1.5	tool lockers of appropriate size.	The lockers shall be MS sheet made, 600mm (W) x 600mm(D) x 100mm(H). Kindly confirm acceptance.	Bid stipulations shall prevail.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
55	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system	3 of 21	15.4.3.1 c)	Public Address System - Field Handset stations	Please specify the number of field handsets required for price bid purposes so that all the bidders are at par. In case, same has to be decided by bidder, the quantity shall be final and any additional quantity shall have a price implication.	The major areas covered are specified in the T.S. The bidder may propose the appropriate number of field handsets, loudspeakers, etc., at different locations to ensure complete area coverage.
56	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system	3 of 21	15.1.3 d)	Public Address System - Loudspeakers/ hooters	Please specify the number of outdoor and indoor type loudspeakers required for price bid purposes so that all the bidders are at par. In case, same has to be decided by bidder, the quantity shall be final and only the locations may be decided during detailed engineering. Any additional requirement shall have a price implication.	
57	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system			Optical Fibre Cables	Please clarify the scope of OFC for integration of all zones for Communication and CCTV System between power house area and intake areas. If it is bidder's scope, kindly specify the type, distance, method of laying etc. for preparation of offer.	Bid stipulations shall prevail.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
58	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system	3 of 21	15.1.3	CCTV System	Please specify the number of cameras required for price bid purposes so that all the bidders are at par.	The major areas covered are specified in the T.S. The bidder may propose the appropriate number of CCTV.
59	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system	3 of 21	15.1.3	Fixed colored cameras with vari focal length lenses;	Type of camera shall be of fixed type. Kindly confirm the same.	Bid stipulations shall prevail.
60	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system			Common items	Please provide the quantity of items like monitors, keyboards, personal computers and printers required for price bid purposes.	To be decided during detail engineering.
61	Volume II, Section II, Sub-Sec. 15 Communication system & CCTV system			Access Control System	There is no details mentioned for Access Control System in the tender specification. Please confirm that the same is not in the scope of bidder.	Confirmed.

Sl. No.	Volume	Page No.	Clause No.	Tender Provision	Bidders Queries	NEEPCO Replies
62	Volume II, Section II, Sub-Sec. 16: Earthing System	7 of 12	17.7	After placing the earth mat conductors, the trenches and electrode pits shall be back filled with bentonite clay.	Excavation/ backfilling is not possible for E&M contractor and shall be in the scope of the civil contractor. Customer may please confirm the same.	Confirmed. However, the material shall be in the scope of E&M Supplier.
63	VOLUME – II: SECTION-IV TENDER DRAAWINGS	DRG	SLD	415V SINGLE LINE DIAGRAM, DRG NO. WAP/HEO/E&M/TD/13: 160KVA transformers shown at barrage & valve house, 1.5MVA SSAT-1&2, 5MVA SST are shown.	No transformers are mentioned in PTS (VOL-II, Section-II) or Schedule of Requirement (VOL-II, Section-III). We understand NO Transformer (including the 160KVA transformers at barrage & valve house, 1.5MVA SSAT-1&2, 5MVA SST) is in scope of Bidder. Kindly confirm acceptance	Confirmed.