

**HSCC (India) Limited**  
as Executing Agency on behalf of  
**MINISTRY OF HEALTH & FAMILY WELFARE,**  
**NEW DELHI**

**Date: 27.12.2018**

**AMENDMENT No. – I**

**Project Name: Tender for “External Electrical Works for All India Institute of Medical Sciences (AIIMS) at Kalyani (W.B.)**

**Tender No. HSCC/PMSSY/AIIMS/Kalyani/Ext-Elect/2018 Dated 06-12-2018**

**Reply to Pre Bid Queries raised by bidders during pre -bid meeting held on 21.12.2018 at HSCC, Head Office, Noida**

Sl No.	Ref./ Vol./ Description	Item No.	Pg No.	Tender Ref.	Bidders Queries	Reply
1	Vol01_NIT&PQ		15	Notice Inviting Bid : 1.17 :The bidder shall be responsible for arranging and maintaining at its own cost all materials, tools & plants, water, electricity, access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents.	Supply of water and electricity upto a single point for constructional works shall be in customer scope. Further distribution of power from that point shall be in our scope. Kindly confirm.	Will be arranged by contractor.
2	Vol01_NIT&PQ		36	<b>Form A Appendix:</b> Defects Liability Period is 12 months from the date of issue of “Taking-over certificate”	If there is any delay in handover & issue of taking over certificate due to non-availability of fronts, other reasons and dependency on other agencies, corresponding period shall be reduced from the DLP Period and completion period will be extended accordingly.	As per tender.
3	Vol01_NIT&PQ	FORM H :UNDERTAKING	46	(to engage a specialised agency after approval of HSCC for undertaking the execution of specialized works....)	Please confirm for which Items, we need to furnish this Undertaking.	DG etc.
4	Vol01_NIT&PQ		52	PERFORMANCE REPORT OF WORKS ( Executed work)	Please confirm whether we can furnish the Completion Certificate of executed work as per standard format of Client, inplace of the given tender format.	As per tender conditions.
5	Vol01_NIT&PQ		2	Last date to fill/upload the tender through e-Tendering. 04.01.2019 upto 15:00 hrs.	Two weeks extension required to submit the tender after receipt of pre-bid queries.	No Change.
6	Vol02_GCC	CLAUSE 1 A RECOVERY OF SECURITY DEPOSIT	15	The person/persons whose tender(s) may be accepted (hereinafter called the contractor) shall permit Government at the time of making any payment to him for work done under the contract to deduct a sum at the rate of 2.5% of the gross amount of each running and final bill till the sum deducted will amount to security deposit of 2.5% of the tendered value of the work . Such deductions will be made and held by Government by way of Security Deposit.....	We propose to submit a Bank Guarantee of 2.5% of contract value at the start of project with validity till DLP of 12 months. Hence no retention shall be deducted from our bills.	As per tender.
7	Vol02_GCC	CLAUSE 2 : COMPENSATION FOR DELAY	16	Compensation for delay of work @ 1 % of tendered value per month of delay to be computed on per day basis Provided always that the total amount of compensation for delay to be paid under this Condition shall not exceed 10% of the Tendered Value of work or of the Tendered Value of the item or group of items of work for which a separate period of completion is originally given.	As a compensation for delay of work consider 0.5% of undelivered items to max. 5% of the undelivered items if delay attributed to contractor.If there is any delay in handover due to non-availability of fronts, other reasons and dependency on other agencies than it will not be attributed to contractor.  All equipments will be deliver at site at different stages so	As per tender.
8	Vol02_GCC		34	CLAUSE 10C PAYMENT ON ACCOUNT OF INCREASE IN PRICES/WAGES DUE TO STATUTORY ORDER(S)	We request you to amend the clause as any variation in current taxes & duties or levies of any new taxes shall be to clients account.	Not applicable

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9	Vol02_GCC	CLAUSE 10 CA PAYMENT DUE TO VARIATION IN PRICES OF MATERIALS AFTER RECEIPT OF TENDER	35	The increase/decrease in prices of cement, steel reinforcement, structural steel and POL shall be determined by the Price indices issued by the Director General, CPWD. For other items provided in the Schedule 'F', this shall be determined by the All India Wholesale Price Indices of materials as published by Economic Advisor to Government of India, Ministry of Commerce and Industry	We understand that this clause is not applicable for this tender. Kindly confirm.	Not applicable
10	Vol02_GCC	CLAUSE 25 SETTLEMENT OF DISPUTES & ARBITRATION	59	Disputes or difference shall be referred for adjudication through arbitration by a Tribunal having sole arbitrator where Tendered amount is Rs. 100 Crore or less.	If any dispute cannot be settled amicably through consultation within ninety (90) Days of the defending Party(ies)'s receipt of the claiming Party(ies)'s notice of dispute then such dispute shall be exclusively and finally settled by Arbitration and Conciliation Act, 1996 .The arbitral tribunal shall consist of three arbitrators to be appointed in accordance with the said Act. The language of the arbitration proceedings shall be English and the venue shall be Mumbai.	As per tender.
11	Vol02_GCC	PROVISION OF SHELTER DURING REST	81	At every place there shall be provided, free of cost, four suitable sheds, two for meals and the other two for rest separately for the use of men and women labour. The height of each shelter shall not be less than 3 metres (10 ft.) from the floor level to the lowest part of the roof. These shall be kept clean and the space provided shall be on the basis of 0.6 sq. m. (6 sq. ft.) per head.	Please clarify whether this clause is applicable for this tender or not.	Existing, if any may be used.
12	Vol02_GCC	SCHEDULE 'E'	108	Performance Guarantee: 5% of Tendered Value Security Deposit: 2.5% of Tendered Value	Please clarify if both Performance guarantee and Security deposit are to be submitted and also specify their duration of validity.	As per tender.
13	Vol03_SCC		11	<b>4:Scope of work &amp; Approval required</b> .....their maintenance during defect liability period including & preparation of all detailed shop drawings, obtaining approval from electrical inspectorate, chief inspector explosive and other local authorities for electrical works, liaison for getting electrical connection from state electricity board and all others local Statutory requirements if any, from the concerned authorities.	* If Load sanctioning and approval will be in contractor scope, please clarify the requirement of load. * Clarify that Cabling and other associated work from electricity board Substation to project substation will be part of this tender or considered elsewhere.	10-12 MVA approx.
14	Vol03_SCC		11	4:Scope of work & Approval required 3 (e.) Obtaining related NOC's from statutory/ local/governmental agencies. Statutory payment on this account will be reimbursed by the client at actual.	We propose that obtaining occupancy certificate as mentioned above shall be in client scope. Kindly confirm.	approval of electrical inspector is required liasing for load senction from state electricity board is in the
15	Vol03_SCC	32.6 : Site office and Infrastructure	37	Deleted	Site office and Storage of material space will be provided at site with free of cost. Please clarify.	suitable space only will be provided
16	Vol03_SCC	Separate bank Account:	38	The contractor shall open a bank account specifically for this contract. The mobilization advance given to the contractor shall be deposited in this account only. The details of this account shall be made available to the Executing agency. The contractor shall draw from this account the expenses for the purpose of procurement of materials, machineries, tools & plants and shuttering required for the said work only.	We propose that Bidder shall not maintain a separate bank account for the transactions. It shall be done through our regular bank account. Kindly accept the same.	As per tender.

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17	Vol03_SCC	24 : Terms of Payment	45	Terms of Payment ( <b>Only for items of major electrical equipments</b> ) a. 70% of BOQ rate on receipt of equipment against receipt of complete material at site & test certificates. b. 15% of BOQ rate on erection and installation of equipment. c. 10% after successful completion of all works including all testing, commissioning & taking over. d 5% after taking over of all works.	*Please specify major electrical equipments for which tender payment terms are applicable. *Provide the payment term for other tender items.  Please consider following payment terms. • 10% interest free non recoverable mobilization advance • 80% against delivery of material on prorata basis • 5% against installation ,Testing and commissioning on prorata basis • 5% against Handing Over	No change, As per Tender
18	Vol03_SCC	23: Confirmation of Quantities	45	All quantities indicated in BOQ are tentative which may vary as per site conditions. Contractor has to verify quantities before procuring the material. No payment shall be payable for quantity brought to site but not used.	Material quantity approved by consultant and delivered to site should be paid & taken by client. Kindly accept the same.	As per tender.
19	General			EMD/ Bid Security	Please provide bank details of the beneficiary to prepare the EMD.	Name of the bank : Punjab National Bank , 2. Address : Sector-27, Noida 3. Beneficiary Name : HSCC (India) Ltd 4. Beneficiary A/c No. : 2726001800000011 5. Branch Code : 2726 6. Bank IFSC : PUNB0272600
20	VOLUME-V, NIC & NGR PANEL		10 of 87	NIC & NGR Panel complete with following	Approved makes are not mentioned in List of Approved Makes, Please Provide.	Siemens/L&T/ABB/Schneider.
21	VOLUME-V, C&R PANEL		11 of 87	Supply, installation, Testing & commissioning of Control and Relay panel (indoor type) complete with following.	Approved makes are not mentioned in List of Approved Makes, Please Provide.	Siemens/L&T/ABB/Schneider.
22	VOLUME-V, C&R PANEL		11 of 87	Supply, installation, Testing & commissioning of Control and Relay panel (indoor type) complete with following. <b>4 No + Existing 2250 KVA 11 KV DG sets</b> incoming each comprises the following :	There are 3 No DG Sets therefore, the BOQ Shall be for 3No + Existing in Place of 4No + Existing, Please Clarify.	As per BOQ
23	VOLUME-V, Transformer		13 & 14 of 87	Design, Manufacturing, supply, installation, testing and commissioning of Outdoor, ONAN/ONAF type,12/16 MVA & 2 MVA 33KV/11KV, 3 Phase, 50 Hz, copper Double wound transformer with winding, complete as required and <b>confirming to IS-2026 as amended up to date and additional specifications</b> complete in all respects as required at Site.	We request you to Confirm the Losses/IS Level of the transformer, Please Confirm.	Losses will be as per ECBC requirement.
24				Design, Manufacturing, supply, installation, testing and commissioning of Outdoor, ONAN/type,2500 KVA & 1000KVA 11KV/433V, 3 Phase, 50 Hz, copper Double wound transformer with winding temperature indicator/ controller actuated by means of resistance temperature detector embedded in LV winding, complete as required and confirming to IS-1180 as amended up to date and additional specifications complete in all respects as required at site.	We request you to Confirm the Losses/IS Level of the transformer, Please Confirm.	For distribution transformer IS:1180 Level--3
25	VOLUME-V, DG Set		15 of 87	DG SET IN ACCOUSTIC ENCLOSURE WITH REMOTE RADIATOR COMPLETE WITH FOLLOWING	The BOQ says that DG SET is with Remote Radiator, we request you to please provide Distance between DG Set & Remote Radiator, Please Provide.	As per BOQ
26	VOLUME-V, HT CABLING & SUBSTATION		17 of 87	Supply & Testing of 33KV 3C XLPE earthed / unearthed cables including all accessories, supports etc. as specified and shown on drawings complete, confirming to IS : 7098 AND IS : 1255 as amended up to date and additional specifications complete in all respects as required at site.	The BOQ says both Earthed / Un Earthed, it should be Earthed, Please Confirm/Clarify.	Earthed system
27	VOLUME-V, HT CABLING & SUBSTATION		17 of 87	Supply & Testing of 11KV 3C XLPE earthed / unearthed cables, confirming to IS : 7098 AND IS : 1255 including all accessories, supports etc. as specified and shown on drawings complete.	The BOQ says both Earthed / Un Earthed, it should be Earthed, Please Confirm/Clarify.	Earthed system

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28	VOLUME-V, EXTERNAL PA		57 of 87	12W Pole Mounted External Speaker Complete with 4meter GI Pole and all necessary accessories to finish the Job.	The diameter of GI Pole is not mentioned, Please Provide.	As per relevent IS code
29	VOLUME-V, EPABX SYSTEM		58 of 87	EPABX SYSTEM	Technical Specifications are not in the Tender Document, Please Furnish.	As per BOQ
30	VOLUME-V, IP CCTV SURVEILLANCE & ACCESS CONTROL SYSTEMS		66 of 87	IP CCTV SURVEILLANCE & ACCESS CONTROL SYSTEMS	Technical Specifications are not in the Tender Document, Please Furnish.	As per BOQ
31	VOLUME-V, UPS & INVERTERS		69 of 87	INVERTER	Technical Specifications & Makes are not provided, Please Furnish.	Luminous/Microtek/Sukam
32	VOLUME-V, UPS & INVERTERS		69 & 70 of 87	Supply of IGBT based micro processor controlled True On line double conversion 3 Phase input 415V and 3 Phase output 1X 40 KVA (0.9PF) Inverter (N) consisting of following: Sealed maintenance free batteries for 1 x 30 KVA Inverter with 90mins. backup time on Inverter module with inerconnectors, Rack and accessories. Rack shall have shrouds for safety from live battery terminals.	In this item rating of UPS is 40 KVA & Batteries are for 30 KVA, Please Clarify.	Sealed Maintenance free batteries with 30 minutes backup equivalent KVA as per UPS will be provided.
33	VOLUME-V, SPECIALIZED SERVICES OF AUDITORIUM		81 of 87	SPECIALIZED SERVICES OF AUDITORIUM	Technical Specifications are not in the Tender Document, Please Furnish.	As per BOQ
34	VOLUME-III, SCC		33	9. Cutting of Trees Permission of cutting of trees if required will be obtained by Contractor.	We request you to please keep this in scope of client, Please Confirm.	Not applicable
35	VOLUME-IV, TECHNICAL SPECIFICATION		1	xvi. Enhancement/Sanctioning Electrical Load from State Electricity Board.	We will take Approval from the Electrical Inspector for the work executed by us & Load Enhancement/Sanctioning of Load From State Electrical Board shall be in scope of client, Please Confirm.	liasoning work for enhancement of load is in the scope of contractor. However statutory fee will be reimburse after submission of proof
36	VOLUME-IV, TECHNICAL SPECIFICATION		3.2	BUS DUCTING For each busduct length and fitting shall be included as an integral part while on both internal and external surface, metal trunking shall be made of 1.6mm Electrogalvanized sheet steel with Epoxy Powder Coated by an automated electrostatic process and 50% integral housing ground is standard (UL listed 50% ground path).	The Approved manufacturers have their standard enclosures with standard thickness & standard metal some use GI/Aluunium housing, therefore we request you to please allow us to quote the prices as per manufacturer standard from the approved makes, Please Confirm.	GI/AL as per OEM
37	VOLUME-IV, TECHNICAL SPECIFICATION & VOLUME-V, BOQ		4.3 (TS) & 4.4.1 (BOQ)	<b>TECHNICAL SPECIFICATION</b> M V Switchgear - MCCB 4.3 Release: 1) Ratings above 250Amp. should be Microprocessor based with over load ,short circuit ,earth fault protections 2) Ratings equal & less then 250A should be adjustable thermal and magnetic type. <b>BOQ</b> _v) Upto 200A Thermal magnetic MCCB with O/L andS/C protection with variable current above 200A microprocessor based MCCB with O/L, S/c with	There is contradiction between Technical Specification & Boq, We shall follow Technical Specification or BOQ, Please Confirm.	BOQ will prevail
38	VOLUME I, NIT		5	**"Similar Works" shall mean Electrical works including Supply, installation, testing, commissioning of HT substation consisting of transformer, HT & LT panels, all executed under one agreement and one purchase order.	Subheads given in the Tender BOQ Contains DG Set, Cabling, Bus Duct, Rising Main PA, EPABX, CCTV, UPS, Special Services for Auditorium, SOLAR, BOOM BARRIER Etc, Can we consider all these Subheads executed under one agreement / one purchase order for Pre Qualification, Please Clarify/Confirm.	as per tender
39	VOLUME-IV, LIST OF APPROVED MAKES		E-1 R0	Transformer ABB/GE/ Schneider/Alstom	ABB do not manufacture ONAN Transformer & Alstom & Schneider are same, therefore we request you to approve Kirloskar & Voltamp Make also, Please Confirm.	No change

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40	VOLUME-IV, LIST OF APPROVED MAKES		E-1 R0	Diesel Engine: Cummins/ Caterpillar/MTU/ Perkins- Sterling	CUMMINS/CATERPILLAR/MTU are OEM but Sterling is system integrator of Perkins, therefore we request you to approve the system integrator of CUMMINS/CATERPILLAR/MTU also, Please Confirm.	No change
41	VOLUME-IV, LIST OF APPROVED MAKES		E-3 R0	Cable Trays/ Raceways OBO/ Legrand/ Cooper	Cooper don't manufacture cable tray & Raceway, OBO/Legrand does not meet Tender Specification/Size of Cable Trays, therefore we request you to approve MEM/SLOTCO/STEELWAYS, Please approve.	additional wire mesh type cable tray may be accepted as per OEM Specification
42	VOLUME-IV, LIST OF APPROVED MAKES		E-3 R0	LED light fitting & Fixture Philips / GE/ Crompton Greaves	GE has closed the manufacturing, therefore we request you to approve Bajaj & Wipro make also, Please Confirm.	No change
43	VOLUME-IV, LIST OF APPROVED MAKES		E-4 R0	UPS system Schneider- MG , APC/ Eaton Power ware/ Emerson	Schneider-MG & APC are same, We request you to please approve Numeric & Reillo PCI, Please Confirm.	No change
44	VOLUME-IV, LIST OF APPROVED MAKES		E-4 R0	High Mast poles Crompton Greaves /Phillips	We request you to please approve Bajaj & Valmount, Please Confirm.	additional make Valmount may be accepted for poles and High mast
45	VOLUME-IV, LIST OF APPROVED MAKES		E-4 R0	Capacitor Epcos, Schenider, L&T, Ducati	We request you to please approve ABB as it is already approved in APFC Panels, Please Confirm.	Additional make ABB may be accepted for capacitors
46	GENERAL			Drawings - PDF	We request you to please provide complete drawings <b>along with SLD</b> in AutoCAD format, Please Provide.	will be provided to successful bidder
47				MV panels/Fire panel/AHU Panel	We request you to kindly approve <b>Shivalic Power Control, Application Control Panels Pvt Ltd &amp; Krypton make also.</b>	No change
48				Transformer	We request you to kindly approve <b>Voltamp &amp; Sudhir make.</b>	No change
49				Busduct/ Rising Mains	We request you to kindly approve <b>EAE make.</b>	No change
50				UPS system	We request you to kindly approve <b>Riello Ups &amp; Delta Power Solutions (I) Pvt. Ltd.</b>	No change
51				ACTIVE HARMONIC FILTER(AHF)	Request to give approval of <b>M/s P2 Power Solutions Pvt. Ltd &amp; Delta power Solutions (I) Pvt. Ltd.</b> make also.	No change
52				Epabx System	Technical Specification is not available in the tender documents. Request you to kindly provide the same	Major specifications defined in BOQ.
53				Specialized Services of Auditorium	Technical Specification is not available in the tender documents. Request you to kindly provide the same	As per BOQ.
54				Solar Photovoltaic Power Generation	Technical Specification is not available in the tender documents. Request you to kindly provide the same	As per BOQ.
55				BMS System	The quantity of Main LT panel in IO summary is not matching with the BOQ quantity (Please clarify)	As per actual requirement at site.
					The quantity of Utility panel in IO summary is not matching with the BOQ quantity (Please clarify)	As per actual requirement at site.
					Count of AHU's from the IO summary not matching with those from the BOQ	As per actual requirement at site.
					Spare percentage considered 15% in IO summary and 25% in the BOQ given (Please clarify)	As per BOQ.
					The use of Fire signal IO point (Please clarify)	Fire Signal from FDA panel to AHU through Control Module for start/stop of AHU/damper as per requirement.

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					DPS for static pressure (AI or DI, Clarification needed)	AI
					VFD status/control IO point (Please Clarify)	As per BOQ.
					Specifications required for each sensing device (viz; accuracy, range, IP rating, etc)	As per requirement.
					BMS requirement for 1 or more buildings and If multiple, the connectivity to be clarified	Multiple building with optical fibre cable.
					Flat IP controllers (Not mentioned in the specifications) (Please clarify)	As per BOQ.
					21 CFR mentioned in the specifications. As a medical college/Hospital, the same is not required as per our understanding. (Please clarify)	As per specs.
56		Sr. 13.0 UPS & Inverter		Sr. No. 13.6	5KVA UPS as per topology comes in 1 in 1 out configuration. Request you to amend from 3 phase in 3 phase out to 1 ph in 1 ph out	Both will be accepted as per site requirement and availability of product
57				Sr. No. 13.7	10KVA UPS as per topology comes in 1 in 1 out configuration. Request you to amend from 3 phase in 3 phase out to 1 ph in 1 ph out	Both will be accepted as per site requirement and availability of product
58				Sr. No. 13.8	5KVA UPS as per topology comes in 1 in 1 out configuration. Request you to amend from 3 phase in 3 phase out to 1 ph in 1 ph out	Both will be accepted as per site requirement and availability of product
59				Sr. No. 13.9	10KVA UPS as per topology comes in 1 in 1 out configuration. Request you to amend from 3 phase in 3 phase out to 1 ph in 1 ph out	Both will be accepted as per site requirement and availability of product
60				Sr.No. 13.15	5KVA UPS as per topology comes in 1 in 1 out configuration. Request you to amend from 3 phase in 3 phase out to 1 ph in 1 ph out	Both will be accepted as per site requirement and availability of product
61	Vol 5 BOQ			11.2 Electrical Management System 11.2.1 Supply, installation, testing and commissioning of "DDC-MAIN LT PANEL" electrical management complete as per I/O Summary. Qty 2 Each	There are mismatch in the Qty between BOQ and I/O summary. Please confirm which one to follow.	Quantity will be as per actual site requirement.
62	Vol 5 BOQ			11.2 Electrical Management System 11.2.2 Supply, installation, testing and commissioning of "DDC- Utility LT PANEL" electrical management complete as per I/O Summary. Qty 1 Each	There are mismatch in the Qty between BOQ and I/O summary. Please confirm which one to follow.	Quantity will be as per actual site requirement.
63	Vol 4 Technical Specs			B. Electrical management System FEP, UPS Output Panel, HVAC Panel	FEP, UPS, HVAC Panel included in the IO summary for electrical management system, but not in the BOQ (Please clarify)	Quantity will be as per actual site requirement.
64	Vol 4 Technical Specs			A. AHU Management System PER AHU Type 1- Fire Signal DI PER AHU Type 2- Fire Signal DI	Kindly elobrate the use of Fire signal IO point in the system. Please confirm whether its actually needed.	Required as per I/O system.
65	Vol 4 Technical Specs			2.18 21 CFR Part 11	21 CFR mentioned in the specifications. With a medical college/Hospital, As per manufacturer standards the same is not required. Please confirm.	BOQ will prevail.
66	Vol 4 Technical Specs			Earthing Truck	Please confirm whether earthing truck for maintenace of HT panel is required or not.	As per BOQ,not required.
67	Vol 4 Technical Specs			Lub oil filtration shall be through strainers which are capable of being cleaned when the engine is running. Air filtration shall be through oil bath or cleanable dry type filters.	As per manufacture standard Lube/Fuel filter shall simplex type and it can be cleaned when DG Set in off condition. Please confirm.	Standard specs of OEM will be accepted.
68	Vol 4 Technical Specs			The engine shall be electrically started and the battery shall be 24V leadacid high discharge tubular or plante type and rated for 4 (four) consecutive starting kicks and the continous drain for signals and controls.	As per manufactrure standard and design VRLA Type lead acid battery is used which is suitable for 06 nos consecutive starting kicks & continous drain for signals and controls. Please confirm.	VRLA type lead acid battery may be accepted.

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69	Vol 4 Technical Specs			Alternator shall be 3 phase, 4 wire 50 cycles 415 volt, brushless screen protected drip proof with self contained excitation system and self regulating and conforming to BS 4999/5000 & continuously rated in accordance with BS 2613. The alternator should have the rated capacity at 0.9 PF.	As per Alternator manufacture standard design Power factor shall be 0.8 (PF) at rated capacity. Please confirm.	Rating of Alternator will be as per BOQ.
70	Vol 4 Technical Specs			The design criteria shall be that the insertion loss across the enclosure shall not be less than 20dB, while the sound pressure level at 1m from any part of the enclosure shall be less than 75dBA.	As per CPCB norm with acoustic enclosure noise insertion loss shall be 25dBA at one meter distance from DG SET. Please confirm.	CPCB/CPWD Norms may be accepted.
71	Vol 4 Technical Specs			1.1 The Tenderer shall enclose copies of type test certificates, wherever applicable, for all the equipments and materials, quoted by him, along with the bid for Employer's reference as per the relevant standards specified. 2.2 The following tests shall be done at works before dispatch 2.2.1 Tests on Alternator:	As per your Clause no 1.1 we shall provide the type/round test certificate of engine and alternator. Alternator separate testing will increase the lead time. DG Set factory test will be provided at manufacturer works	Accepted.
72	Vol 5 BOQ			Design, Manufacture, Supply, Unloading & shifting, Installation, testing, commissioning and alignment at site of Prime Duty continuous rated 4 stroke. .....Note- DG set shall be auto start within 3 seconds.	As per manufacturer standards Please note that DG Set shall be started within 10-15 sec from signal received from Mains failure and it will take full load in next 10-15 sec. Please confirm	As per standard OEM.
73	Vol 5 BOQ			Design, supply, installation, testing & commissioning of 30 KL underground MS diesel tank including all related civil works foundation, fencing, platform, for unloading of diesel. Flame proof push buttons, pumps (one working & one standby) for supplying of diesel from this UG tank to day tanks of all the DG sets complete with cabling, earthing, piping, float switches etc. Extinguishers shall be as per fire norms. including all necessary approvals from chief controller of explosives. (Common header for this HSD tank and existing HSD tank to be considered to fill all DG sets).	Please share the layout of DG set, Panel, and piping and instrument diagram (P&ID) for HSD system. To enable us to calculate Qty of various equipment such as cable, exhaust piping, Fuel piping, Earthing, etc	Layout of DG set has been mentioned in tender drawings. HSD will be as per site consideration.
74	Vol 5 BOQ			Design, supply, installation, testing & commissioning of 30 KL underground MS diesel tank including all related civil works foundation, fencing, platform, for unloading of diesel. Flame proof push buttons, pumps (one working & one standby) for supplying of diesel from this UG tank to day tanks of all the DG sets complete with cabling, earthing, piping, float switches etc. Extinguishers shall be as per fire norms. including all necessary approvals from chief controller of explosives. (Common header for this HSD tank and existing HSD tank to be considered to fill all DG sets).	Please share the layout diagram for existing HSD tank and Proposed HSD tank.	Site may be visited by bidder.
75	Vol 4 Technical Specs			Tenderers should submit guaranteed performance data as per Appendix B to IS:2026 for proper evaluation of their equipment	Appendix B is missing in the tender doc. Please share the same.	TDS to be submitted by successful bidder after award of work.
76	Vol 4 Technical Specs			Vendor should quote for a heat run test as an optional item.	In BOQ there are no section for optional item, Please confirm where to consider.	As per tender.
77	Vol 5 BOQ			1.2.1 Civil foundation as per the manufacturer recommendation is also in the scope. Price of civil work included in the items. 1.2.3 Civil foundation as per the manufacturer recommendation is also in the scope. Price of civil work included in the items. 1.2.4 All Foundations Shall be in Civil Venders scope. (Transformer vender shall provide necessary foundation drawings)	Please confirm the civil foundation for all the three types of transformer shall be in the scope of civil vendor or the same has to be included in the price by electrical contractor.	Civil Foundation will be in the scope of electrical contractor. Cost of the same to be included in the cost of equipment.
78	Vol 5 BOQ			Supply, installation, testing, supply and commissioning of LV cubicle type totally enclosed. .... should have 3 level topology with IP 20 enclosure.	Please accept the level of topology as per the approved manufacturer standards and design.	Topology will be as per BOQ.
79	Vol 5 BOQ			Supply, installation, testing, supply and commissioning of LV cubicle type totally enclosed free standing type, powder coated, dust, damp and vermin proof Active harmonic filter of 3-phase/ 3-wire.....cont	Please confirm the system shall be 3 ph 4 Wire system as this is AHF and should have 200% Neutral current compensation to have proper balance of current in 3 phase and harmonic mitigation	Neutral will be 200%.

SI No.	Ref./ Vol./ Description	Item No.	Pg No.	Tender Ref.	Bidders Queries	Reply
80	Vol 5 BOQ			Supply, Erection, Testing and Commissioning of 11 kV 2000 kVAR, 0.2% reactor, with 15% Over voltage 5 Steps APFC Panel with communication provision for Electrical parameters KWH, KVAH, PF, HZ and ON, OFF, TRIP, FAULT, Suitable Ventilation and Temperature Indications and Capacitor Bank: 2652 kVAR, 12.65kV, 3 phase capacitor Panel in star configuration along with cast resin/ resin impregnated air cooled series reactors, cast resin neutral CT in a closed container detailed as per technical specification.	Please share the detailed specification for the same. i.e Location of Installation , Configuration of design , Nos of RVT , Incomer details of Cap Bank ,etc	will be provided to successful bidder.
81	Vol 5 BOQ			In extruded aluminium suitable for operation on 50Hz AC supply with 100% neutral complete with all accessories bends, flange ends. The Busway shall have a system of single bolt double head section jointing system. The bus duct suspension system shall be complete with steel rods, GI angle supports and dash fasteners etc. at required intervals for safe installation of bus ducts. Supporting system shall be fail proof even in earth quake situations, as per Sismic requirement at site.	Please confirm the bus duct enclosure material shall be CRCA type or extruded aluminium.	GI/extruded aluminium insulation epoxy/Milor/Polyester Joints silver/tin plated. Conductivity of Aluminium minimum 57%.
82	Vol 5 BOQ			Manufacture, Supply, Installation, Testing and Commissioning of Sandwich Busway IP-65,	The complete bus duct are for outdoor installation purpose or some part for indoor application as well. If so, please bifercate the outdoor and indoor type bus duct requirement in the BOQ. As the IP will be changed in case of indoor application.	As per actual requirement at site.
83				Cast Resin Busway 1000 volts system Busduct, 4bar - 3P & 1N, Aluminum conductor 4000Amp, 65KA, 4P, IP 68, Aluminum Conductor including all the accessories/ horizontal & vertical bends.	Please confirm the IP rating shall be 65 or 68.	As per BOQ.
84	Vol 5 BOQ			Supply & Testing of 33KV 3C XLPE earthed / unearthed cables including all accessories, supports etc. as specified and shown on drawings complete, confirming to IS : 7098 AND IS : 1255	Please confirm the cable shall be earthed/ unearthed type. As in BOQ and specs both is mentioned.	Earthed system. As per BOQ.
85	Vol 5 BOQ			upplying, Installation, testing, commissioning of Compartmentalized cubical type panel board fabricated with CRCA sheet steel of 2mm thick for frame work and covers, 3mm thick for gland plates i/c cleaning & finishing complete with 7 tank process,	All Panel Except Main LT Panel from item no. 4.2.1 to 4.2.6 shall be non TTA Type. Please confirm.	As per BOQ.
86	Vol 5 BOQ			Supply of 1100V grade XLPE/PVC insulated sheathed & armoured (unless otherwise specified as flexible) Fire Retarded Low Smoke (FRLS) cables indoor or outdoor on existing trays/walls/columns/ indoor/ trenches complete as per specifications, as required and as below	Please confirm the MV cable shall be XLPE as IS 7098. As there is discrepancy in BOQ and Specs.	As per BOQ.
87	Vol 5 BOQ			Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 kV grade as required.	Please confirm the compression gland shall be single or double.	Double compression gland.
88	Vol 6 Tender Drawings			Tender Drawing	Please share the SLD for the electrical distribution system.	will be provided to successful bidder.
89	Vol 5 BOQ			Active Harmonic Filter	Please share the detail specification for the same , As it is not there in the tender doc.	will be provided to successful bidder.
90	Vol 5 BOQ			IP CCTV SURVEILLANCE & ACCESS CONTROL SYSTEMS	Please share the detail specification for the same , As it is not there in the tender doc.	will be provided to successful bidder.
91	Vol 5 BOQ			External PA System	Please share the detail specification for the same , As it is not there in the tender doc.	will be provided to successful bidder.
92	Vol 5 BOQ			SOLAR PHOTVOLTAIC POWER GENERATION	Please share the detail specification for the same , As it is not there in the tender doc.	will be provided to successful bidder.
93	Vol 5 BOQ			EPBAX System	Please share the detail specification and architectural drawings for the same , As it is not there in the tender doc.	will be provided to successful bidder.
94	Vol 5 BOQ			Boom Barrier System	Please share the detail specification for the same , As it is not there in the tender doc.	will be provided to successful bidder.



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95	Vol 5 BOQ			SPECIALIZED SERVICES OF AUDITORIUM	Please provide AutoCAD Drawings of the auditorium plan & Elevation clearly showing dimensions & height to check the correctness of BOQ. As the specialised vendors seeks difficulties in comparing their equipment requirements along with the BOQ requirements. or share the dimensions of Auditorium.	will be provided to successful bidder.
96	Vol 5 BOQ			18.09 Supply, Installation, Testing & Commissioning of Diecast aluminum "C" clamp with safety locking chain, duly powder coated in black matt texture finish etc. all complete. Make:Desisti / ARRI / Canara lighting. Nos 87	There are total no. of 95 light fixtures in the subhead. The required no. of C clamp with safety locking chain to hung the light fixtures shall also be 95 Nos. Please confirm	As per actual requirement at site.
97	Vol 5 BOQ			18.10 Supply, Installation, Testing & Commissioning of Safety bond with lock clip to be fixed around the grid to avoid fall of the material in case if the "C" clamp is not locked properly . SWL 100Kgs etc. all complete. Make:Desisti / ARRI / Canara lighting	There are total no. of 95 light fixtures in the subhead. The required no. of safety bond shall also be 95 Nos. Please confirm	As per actual requirement at site.
98	Vol 5 BOQ			Supplying, installation, testing & commissioning of Indoor type floor mounted metal clad, 11KV VCB panel (extendable) with 6 Nos.VCBs ( 4 No - Incomer + 2 No -Outgoing) (To be connected to existing DG HT Panel as shown in SLD).....cont.	Please share the SLD as the same is mentioned but not there in the tender drawing.	will be provided to successful bidder.
99	Vol 5 BOQ			Supplying, installation, testing & commissioning of Indoor type floor mounted metal clad, 11KV VCB panel (extendable) with 6 Nos.VCBs ( 4 No - Incomer + 2 No -Outgoing) (To be connected to existing DG HT Panel as shown in SLD).....cont.	Please Share existing HT panel detail which is to be connected with our New panel.	will be provided to successful bidder.
100	Vol 5 BOQ			Supplying, installation, testing & commissioning of Indoor type floor mounted metal clad, 11KV VCB panel (extendable) with 6 Nos.VCBs ( 4 No - Incomer + 2 No -Outgoing) (To be connected to existing DG HT Panel as shown in SLD).....cont.	Bus Coupler is mentioned but not specified, Please share the SLD.	As per BOQ.
101	Vol 4 Technical Specs			List of approved makes for Electrical System	Please approve additional makes for following items:	
102				Transformer	Raychem RPG, Voltamp, Kirlosker	No change
103				Bus Duct	EAE, Godrej	No change
104				Main LT Panel/ APFC Panels/ Active Harmonic Filter	Channel Partners for OEM's	No change
105				HT/LT XLPE Cable	KEI, KEC, Polycab	No change
106				LED Fittings	Bajaj, Wipro	No change
107				High Mast Poles/ Octagonal Poles	Bajaj, Paruthi, Utkarsh	Additional Valmont may be accepted for high mast and poles
108				UPS System	Numeric, Reillo Power	No change
109				CCTV Camera	Samsung, Honeywell	No change
110				BMS	Johnson	No change
111				Chemical Earthing	JMV, LPI	No change
112				DWC Pipe	Make Missing	ISI marked
113				RCC Hume Pipe	make Missing	As per civil work.
114	Vol 2 GCC			MOBILISATION ADVANCE	You are requested to provide 10% advance to ensure smooth cash flow and competitive prices for the project	As per tender.
115	General			Load Sanction	Please confirm that the load sanction will be borne by client or the same will be in contractors scope.	in the scope of contractor.Statutory Fee will be reimbursed.
116	Vol 4 Technical Specs			List of approved makes for Electrical System	Do we have provision to add additional makes as per as tender is concern.	No change
117	Vol 1 NIT			04.01.2019 upto 15:00 hrs. & Opening at 15:30 hrs.	You are requested to give extension for 7days	

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118	Make List for CCTV camera			PELCO/ BOSCH/ Sony/ Axis	We request you to approve Honeywell as the additional make for CCTV camera which is also a brand of repute.	No change
119	CCTV system			Architecture of CCTV system	Please explain the architecture of CCTV system. Please clarify the conversion of IP signal to analogue if the cameras are IP enabled.	CCTV system is IP based
120	Distribution matrix of CCTV system			Distribution matrix	Please share distribution matrix of camera - building wise to understand the system better.	As per tender.
121	SLD of ELV system			SLD	Please share the SLD of ELV systems (CCTV, Telephone, BMS systems) for better understanding.	shall be provided to successful bidder
122	BOQ			BOQ	Please share excel file of BOQ.	shall be provided to successful bidder
123	As per Technical specification BMS IO summary			IO Summary in PDF	Please share the IO summary in the Excel Copy.	shall be provided to successful bidder
124	Technical specification	Make list.		Make list for network switches	Kindly provide the same.	HP/Cisco/Juniper/Brocade
125	BOQ	CCTV system		IP CCTV SURVEILLANCE & ACCESS CONTROL SYSTEMS	It seems the BOQ for CCTV system is not complete as there is no BOQ line item for NVR or server & Software to connect, monitor the cameras. Kindly confirm.	it will be integrated to existing CCTV system
126	BOQ	CCTV system		Supply & installation of 1000 Mhz media converter .	Please provide the exact quantity for media converter in nos instead in SET unit.	as per BOQ
127	As per Technical specification	SECTION: 2.3 TRANSFORMERS (Oil Cooled)		Vendor should quote for a heat run test as an optional item.	We will submit TTR for this test. Kindly confirm? Where we should quote for optional price?	TTR to be submitted by contractor after award of work
128					For bid evaluation purpose any transformer loss capitalization is there. Kindly confirm?	As per tender.
129					Kindly confirm the base to be considered for loss evaluation. 12MVA base or 16 MVA base.	12 MVA
130	As per Technical specification SECTION: 2.3 TRANSFORMERS (Oil Cooled)			Make List - ABB/GE/ Schneider/Alstom	ABB and Alstom has regretted, being small rating of transformer. Kindly approve Kirloskar/Voltamp/Raychem	No change
131	As per BOQ			HT Cabling (33kv and 11KV cables)	Kindly confirm type of cable Earth or Unearth type.	Earthed system.
132	As per BOQ			External lighting & feeder pillars	Please provide drawings for High Mast and Poles.	As per actual requirement at site.
133	Specification	Make of Panels			As per tender documents LT Panels are OEM and MV panels makes are Tricolite/Adlec./Sterling & Wilson / Control & Switchgear/Nitya Electro Control Pvt. Ltd./SPC Electrotech/Neptune/Risha Control Engineers pvt.ltd, requesting you to consider the same make as MV panels for LT panels. Please confirm	No change
134	VOL-I,	NIT,	Page - 5		Considering the volume and complexity of work, request you to amend the completion period at least 12 calendar months from the date of site clearance. Please confirm.	No change
135	VOL-I,	NIT,	Page - 12		Being it a composite tender as stated in Cl. No. – 1.26, Page – 17, we request you to amend the clause as per CPWD norms that “in case of Composite civil works including electrical work will only be considered if the value of electrical work only meets the qualifying criteria.” Please confirm.	No change

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136	VOL-I,	NIT,	Page-23		Please state whether we could consider the concessional GST @12% in this composite Government tender or we must consider the normal GST @18% as in case of SITC contract.Please confirm the percentage of GST to consider in this project.	As per the GST rules for govt. Works
137	VOL-I,	NIT,	Page-25		The person having the DSC who is signing the bid online is already having a Generally Power of Attorney from the management end for submission of bid.Can we submit the same duly notarised by a Public Notary, instead of submitting a fresh POA exclusively for this tender? Please confirm.	As per tender.
138	VOL-I,	NIT,	Page-46		It is difficult to undertake at this bidding stage that we will be having any specialized agency (except DG, Sub-stn. And lifts) who will be having average annual financial turnover at least 50% of the estimated price of work. We request you to accept submission of this undertaking before finalisation of contract as per the availability and mutual acceptance of such a suitable agency having that amount of average annual turnover.Please confirm.	specialised agency if any will be submitted after award of work by successful bidder
139	VOL.-3,	SCC,	Page - 45		(i) Please define what are the major items for which you have mentioned the terms of payment.	As per tender.
140					(iii) Please amend payment terms with 10% advance against submission of ABG.	As per tender.
141					(iv) Please amend payment term as prorata basis; like 10% advance against ABG, 60% against supply and receipt of material at site on prorata basis, 15% on erection and installation on prorata basis, 10% against successful testing and commissioning, and final 5% after handing/taking over.	As per tender.
142					(v) Please separate commissioning and taking over payment term as above.Please accept the above and confirm.	As per tender.
143		BOQ				The duration of defect liability period is 12 MONTHS but the maintenance during defect liability period is not mentioned in the BOQ line item.Please clarify.
144	VOL-I,	NIT			It is difficult to arrange the PQ certificate in the format of T4 from the Executive Engineer during bidding stage. We request you to accept the PQ certificate available with us which meets the eligibility criteria comprising the details of similar work executed by us.Please confirm your acceptance.	As per tender.

All other terms & Conditions of the Tender shall remain unchanged.

Prospective bidders are advised to regularly scan through HSCC e-tender portal <http://www.tenderwizard.com/HSCC> and HSCC Website [www.hsccld.co.in](http://www.hsccld.co.in) as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

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Sr. CGM-I, HSCC (India) Ltd.