Prebid query reply, Tender No 1000000432 for SITC of UPS for Technology Centre

Sr. No.	Detailed Reference to TPCODL Tender document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL RESPONSE
1	Annexure-I, Price Schedule page no. 1/2 Serial no. 1	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LIION Battery with 0.75 hour back up on 600KVA load (Battery Bank) -Qty 02 no.	As per tender BOQ it is required 600 KVA (N+N) configuration – 2 sets, it means you need total 600 KVA – 4 number UPS system. Please confirm.	The same has been envisaged and hence ,the Understanding is correct.
2	Annexure-I, Price Schedule page no. 1/2 Serial no. 2	SITC of 60 KVA UPS in N+N configuration for auxiliary load and emergency lighting (SCADA Display Panel, IT Display Panel, Camera, Access Control & Biometric) – Set along with SMF Battery for 1 hour back up- Qty 01 No.	As per tender for item 2 it is asked 60 KVA (N+N) configuration – 1 set, it means you need 60 KVA -2 number. Please confirm.	The same has been envisaged and hence ,the Understanding is correct.
3	Tender doc. under technical particulers heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 37/185 of PDF, Serial no. 7 Battery Preferred Make: LG/ Samsung/ Panasonic	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates	As per tender it is asked 45 min. backup with 600 KVA. Please confirm whether you need 45 min. backup with each UPS of 600 KVA (N+N) configuration i.e. total 4 set of batteries are required or only 2 sets of batteries are required.	This is to clarify that 45 Mins (0.75hrs.) back up is envisaged for each of the 4 nos. of 600 KVA UPS.
4	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 34/185 of PDF, Serial no. 1.2 Galvanic isolation of neutral	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	As per tender it is asked Isolation transformer is required but it is not mentioned whether it is asked with each UPS of 600 KVA (N+N) configuration i.e. total 4 number isolation transformer is required or you need total 2 number with each UPS Set of 600 KVA.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
5	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 34/185 of PDF, Serial no. 1.2 Galvanic isolation of neutral	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	5) It is also not clear whether the required transformer will be connected at output of UPS or input of UPS. Please clarify the same. If it is connected at input side then what will be the rating of transformer.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
6	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 34/185 of PDF, Serial no. 1 Scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery interconnecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	6) As per tender paralleling kits are required, it means 600 KVA (N+N) will work in parallel redundant mode. Please confirm for parallel operation or it shall work in dual bus configuration as defined in technical specification.	This is to clarify that ,each set of UPS shall work in parallel with the other set and necessary arrangement is to be done by the bidder as envisaged under the solution scope.
7	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 34/185 of PDF, Serial no. 1 Scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery interconnecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	7) Please also confirm whether paralleling panel shall be provided by department or it shall be in the vendor scope.	This is to clarify that ,each set of UPS shall work in parallel with the other set and necessary arrangement is to be done by the bidder as envisaged under the solution scope.
8	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 35/185 of PDF, Serial no. 3 UPS Output	h) Overload capacities 105% continuous	8) As per tender overload capacity asked 105% continuous but it should be 100% continuous, overload 110% for 60 min, 125% for 10 min & 150% for 1 min. The same is also applicable for 60 KVA UPS.	This clause is to be read as "h) Overload capacities 105% continuous for minimum 10 Mins."
9	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 34/185 of PDF, Serial no. 1 Scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery interconnecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	9) AS per tender it is clearly mentioned that required 600 KVA UPS is modular type but for 60 KVA, it is not clear. Hence request you to please clarify whether 60 KVA is standard or modular.	This is to clarify that both standard and modular UPS are acceptable for 60 KVA UPS

10	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 36/185 of PDF, Serial no. 7 Battery Preferred Make: LG/ Samsung/ Panasonic	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	10) The Chemistry of batteries are defined Li-Ion LFP but your approved makes OEM offer NMC batteries hence it should be NMC as provided by approved battery OEM.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
11	Tender doc. under Technical parametes heading Technical Specs 600 KVA UPS with 45 Minutes Backup, page no. 36/185 of PDF, Serial no. 7 Battery Preferred Make: LG/ Samsung/ Panasonic	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	11) As per technical specification point 7 it is asked battery vendor should submit a detailed third-party type test report IS 63003-4. We would like to inform you that these standards are applicable for primary battery but your required Li-Ion batteries are secondary batteries, hence it is not applicable. Please delete the same.	Tender Clause May be read as "Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates."
12	Tender doc. under Technical parametes heading Technical Specs 60 KVA UPS with 60 Minutes Backup, page no. 368/185 of PDF, Serial no. 7 Battery Preferred Make: HBL/ AMRON/ EXIDE	SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed third party type test report IS 1652 :1991 for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	12) There is some confusion about battery type for 60 KVA UPS. You have mentioned SMF batteries at event information while you have asked Li-Ion battery in technical specification. Please confirm required battery.	SMF Batteries with 60 Min Back up is envisaged with full load condition
13	Tender doc. under Technical parametes, page no. 07/185 of PDF,1.7 Qualification Criteria point no d	f) Bidder must submit Authorization letter from the OEM (MAF) for quoted major material for support services. The bidder must attach Manufactures Authorization certificate specific to	13) As per tender it is asked to enclose battery OEM authorization. We would like to inform you that some of the approved battery OEM don't not provide quote directly to bidders. They sell their batteries through distributors only; hence their distributors can provide us the authorization.	Tender clause Stands
14	Tender doc. under Technical parametes, page no. 08/185 of PDF,1.7 Qualification Criteria point no. i	i) The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	14) As per tender qualification criteria point -I, it is asked bidder should also provide resume with appropriate electrical supervisor license from EIC (Electrical) Odisha. We would like to inform you that we are interested to quote as OEM of UPS system, hence we do not possess electrical license. However, we can involve electrical contractor for assigned electrical work who can provide the same. Please confirm it is acceptable to TPCODL.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
15	Tender doc. under 3.5 Period of Validity of Bids page no. 12/185 of PDF	3.5 Period of Validity of Bids Bids shall remain valid for 180 days from the due date of submission of the bid. Notwithstanding clause above, the TPCODL may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and responses thereto shall be made in writing.	15) As per tender it is asked validity period of 180 days, but as you are aware battery OEM gives validity maximum 60 days, hence the validity of tender should be 60 days as battery cost is almost same as UPS cost.	It will remain as per tender terms
16	Tender doc. under 3.9 type trst (if Applicable) page no. 13/185 of PDF	3.9 Type Tests (if applicable) The type tests specified in TPCODL specifications should have been carried out within five years prior to the date of opening of technical bids and test reports are to be submitted along with the bids. If type tests carried out are not within the five years prior to the date of bidding, the bidder will arrange to carry out type tests specified, at his cost. The decision to accept/ reject such bids rests with TPCODL	16) As per tender type test report within 5 years are required. We would like to inform you that the battery OEM (Specially SMF battery OEM required for 60 KVA) provide the type the type test which they have conducted at the starting time of manufacturing of same AH, hence it is not possible to provide the third-party type test within 5 years.	Tender clause Stands
17	Tender Doc. page no. 34/185 under Technical particular in scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery interconnecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	17) The distance between UPS & batteries are not defined, hence please confirm the distance between UPS & batteries so that we can provide the cabling accordingly.	This is to clarify that bidder must carry out site visit and propose as per site conditions
18	Tender doc. under Technical Specs S. No. 1 Scope , 1.1 General Description, Galvanic isolation of Neutal	General	18) Please confirm whether input cable to UPS/ Transformer will be provided by department or it shall be provided by vendors. Please also confirm the distance.	This is to reiterate that the tender's scope clearly mentions that input panel to supply below the racks is under the scope of the bidder wherein LT input panel shoul have provision for input from two different sources with auto changeover mechanism.
19	Tender doc. under Technical Specs S. No. 1 Scope , 1.1 General Description, Galvanic isolation of Neutal	General	19) Please confirm whether output cable to load/ distribution panel will be provided by department or it shall be provided by vendors. Please also confirm the distance.	This is to reiterate that the tender's scope clearly mentions that input panel to supply below the racks is under the scope of the bidder wherein LT input panel shoul have provision for input from two different sources with auto changeover mechanism.
20	Annexure-I, Price Schedule page no. 1/2 Serial no. 1 & 2	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LIION Battery with 0.75 hour back up on 600KVA load (Battery Bank) & SITC of 60 KVA UPS in N+N configuration for auxiliary load and emergency lighting (SCADA Display Panel, IT Display Panel, Camera, Access Control & Biometric) – Set along with SMF Battery for 1 hour back up	20) As per annexure-1 price schedule we have to fill UPS & battery prices clubbed in same column. We would like to inform you that the HSN code of UPS is 8504 while the HSN code of SMF batteries are 8507 which attracts different GST rate i.e. 18% on UPS & 28% on batteries. Hence there should be separate column to fill UPS & other accessories with GST @18% & batteries with GST @28%. Please change the price bid formed and include battery prices separately.	Please refer revised Price Schedule, Annexure I attached herewith. Same has also been uploaded in ARIBA.

21	Tender Doc. 7.1. Special Conditions of Contract payment terms	Terms of Payment: 80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	21) As per tender payment terms is asked 80% within 60 days from the date of receipt of all material & balance 20% shall be released within 30 days from the date of commissioning. We request you to please release 80 % payment immediately after delivery of material as it is high value item.	It will remain as per tender terms
22	Tender doc. under Technical Specs Sr. No. 8 LT Panel	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition	22) Supply of LT panels for powering the load are in our scope of supply but the detailed drawing alongwith required switchgears details are not defined, we request you to please provide the drawings with required switchgears of LT input & output panels.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
23	Tender doc. under Technical Specs Sr. No. 8 LT Panel	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition	23) The same panel details are also required for 60 KVA UPS.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing
24	Tender Doc. page no. 26/185 under Scope of Work: 11& 12	11. All bidders are requested to visit TPCODL Technology Center to carry out Site survey and due diligence prior to participation in the bid to understand the actual requirement before submission of bid documents& 12. Bidder should be responsible to strategically place its resources to provide installation of the schedule items at TPCODL Technology Center as required by TPCODL for meeting the SLAs.	24) As per tender clause 12 it is mentioned that all bidders are requested to visit TPCODL to cattery out site survey, we request you to please share us the contact details of concerned person who can support during site visit & can explain our scope of supply.	All Bidders are requested to plan site visit as per schedule below Date of Visit : 03.10.2023 & 04.10.2023 Time : 2:00 PM to 4:00 PM Contact Details : R Adhikari , 9971393918 Bidder Must follows the safety measures for site visit.
25	Tender Doc. page no. 32/185 under 34. Timeline for Delivery and Installation	Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied system/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery. Timeline of 5 weeks shall be considered for the applicability of LD clause.	25) As per tender one place delivery is mentioned 11 weeks & at other place it is mentioned as 8 weeks, it should be 11 weeks as there are Li-Ion batteries which need delivery period 10-11 weeks	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
26	Tender Doc. 1.3. Calendar of Events	Last Date of Posting Consolidated replies to all the pre-bid queries as received 23.09.2023	26) We also request you to please extend the due date of tender for 2-3 weeks as we will received reply on 23rd September & there are only 4-5 days for prepare the tender & deposit of EMD.	Please look for corrigendum in this regard
27	Document no:TPCODL/P&S/1000000 432/23-24 / Clause No: 1.1. Scope of Work: Page No:6	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank)	We understand that the total load considering all the server racks etc amounts to 425 KW of load. For that load an UPS with 500 KW of frame is enough to cater that amount of load. Considering 600 KW frame will mean oversizing of UPS capacity which can lead to cost additions. Request to kindly accept 500 KW UPS frames as most UPS OEMs are coming up with 500 KW frames as standard. Please amend the requirement to 500 KW/ 600 KW UPS Frame requirement where every OEM can offer the standard frame size.	Tender clause Stands
28	Document no:TPCODL/P&S/1000000 432/23-24 / Clause No: 1.1. Scope of Work: Page No:6	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank) Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning	Since the available load at site around 450 KW, request to kindly amend the back on load of 450 KW or 500 KW to avoid oversizing on the available load.	Tender clause Stands
29	Document no:TPCODL/P&S/1000000 432/23-24 / Clause No: 1.1 General Description Page No:34	System design should be such that it can be connected in parallel even after the installation of the first unit without shutting down running unit (hot insertion). Similarly, it should be possible to take out one unit for maintenance from parallel group without affecting other running units. Parallel UPS systems should have redundant communications cables and cards so that if one communication cable fails, systems can work in parallel.	Hot insertion of UPS frames is not recommended in live condition as there may be possibilities of electrical hazards. It is always recommended to put the UPS on bypass and operate. It is highly recommended to use paralleling kit which is a standard safe option available with all UPS OEMs. Requesting to amend the clause by omitting electrical hazard clauses.	Tender clause Stands
30	Document no:TPCODL/P&S/1000000 432/23-24 / Clause No: 1.2 ANNEXURE-I Galvanic isolation of neutral Page No:34	Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	As per the IEEE 1100-2005 clause number 7.2.12.4 (UPS system configuration) it is strictly mentioned that the availability and reliability of UPS is highly dependent on system configuration, thus disabling static bypass puts the UPS availbility from 99% to <92% which actually affects mission critical loads. Hense Omit the clause. Futhermore, inbuilt transformer cant provide total galvanic isolation till the time the bypass is disabled, hense only allow external isolation transformers.	Tender clause Stands
31	Document no:TPCODL/P&S/1000000 432/23-24 / ANNEXURE-I Clause No: 1.3 Compliance to Standards like IEC, EN, CE UL etc. Page No:34	UPS System performance, safety and EMC EMI compatibility must be in compliance with relevant standards Like IEC, EN, IEEE. (IEC 62040-1, 2 & 3), CE or UL Certified.	CE certification and UL certification are not equivalent. CE is the basic test certification required by any UPS vendor to sell product in commercial market whereas UL RP 2986 certification actually focusses on the safety aspect.Incident Arc Energy in front of product with top cover bolted and power module inserted or removed is <1.2 cal/cm²	This clause is to be read as "UPS System performance, safety and EMC EMI compatibility and environment must be in compliance with relevant standards Like IEC, EN, IEEE. (IEC 62040-1, 2 & 3) along with CE or UL Certification ."

32	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 3 UPS Output: Page No:35	a) Rated power 600KVA b) Active Power 600KVA @Unity PF	Kindly amend the rated power of the UPS to 500 KVA and active power at 500 KW @ Unity PF	Tender clause Stands
33	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 4 System Page No:35	a) Efficiency >95% at any load above 25%	Request to increase the efficiency value to >96.5% at >25% as higher the efficiency of the UPS , higher is the savings on electricity cost every year till the service life of an UPS.	Tender clause Stands
34	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 4 System Page No:35	k) Maintenance / Service Bypass Manual maintenance bypass or Service bypass must be inbuilt with each UPS.	Maintence bypass for UPS ratings >200 KVA doesn't come as an inbuilt feature nowadays as certain risk factors are associated as higher rated UPS deals with high current value. Request to accept or amend external maintainence bypass panel as safety is a cruicial aspect.	Tender clause Stands
35	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 6 Other Feature Page No:35	c) Phase Shift Phase shift angle 120degree+/-1degree for balanced load and 100% unbalanced load	Request to amend the phase shift angle as 120 degree +/- 3 degree for 100% unbalanced load.	Tender clause Stands
36	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 7 Battery Preferred Make: LG/ Samsung/ Panasonic Page No:36	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates	Since the preffered battery make is LG/ Samsung or Panasonic, LG and Samsung doesn't manufacture LFP chemistry batteries for commercial use. Samsung make LMO-NMC and LG makes NMC chemistry batteries. Hence kindly amend amend the clause to LMO-NMC/NMC/LFP. Also since these battery modules are manufactured outside India, so they follow UL9540A certification. Kindly accept	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
37	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Technical Specs 60 KVA UPS with 60 Minutes Backup Page No:37		The above points are same for 60 KVA UPS requirement.	Not applicable for 60 KVA UPS
38	Document no:TPCODL/P&S/1000000432/23-24 / ANNEXURE-I Clause No: 3 UPS Output: Page No:38	h) Overload capacities 105% continuous	Our proposed UPS has overload capacity of 105% for 10 mins, requesting for acceptance.	This clause is to be read as "h) Overload capacities 105% continuous for minimum 10 Mins."
39	**1.7 Qualification Criteria (i) Pg 8**	The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	Kindly remove this clause for wider participation or allow the bidder to outsource it to conern Electrial person or EIC Supervisor. Although the implementation & scope of work on the bidder or OEM scope.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
40	**7.3 Payment terms Pg 15**	80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	For MSME's bidder, 80% Payment shall be made within 45 days from the date of receipt of all materials and submission of Certified bill.Balance 20% shall be released within 30 days from the date of successful commission.	Noted
41	**Technical spec.600KVA Point 1 (Scope) Pg 34**	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	Pls confirm , if offered lithium ion batteries needs to be considered UL9540a i.e Fire propagation proof Pls confirm , if offered lIthium ion batteries needs to be considered UL9540a i.e Fire propagation proof for TATA Power safety from mishappening of Entire facility burnout . Also We request you to consider Modular Fault tolerant design UPS . As In this case in 600KW UPS , even if one module fails, the UPS will continue working in reduced capacity	Safety certification for batteries should be IS 16046-1/IEC 62133-1

42	**1.2 Galvanic isolation of neutral Pg 34**	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in systems)	We suggest to keep Isolation transformer at the input side instead of output side for following reason. 1- UPS will be protected and will be using isolation transformer neutral for its control wiring. 2.No issue will be in synchronization due to difference of impedance between two isolation transformer	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
43	**System (a) Efficiency Pg 35**	>95% at any load above 25%	For reducing carbon emission and more energy saving , We request to accept >97% effciency @ 50% and 75% load and greater than >96% effciency @ 25% and 100% load	Tender clause stands
44	**6. Other Features (b) Isolation Transformer Pg 35**	1:1 Delta -Star Isolation Transformer must be inbuilt or external at inverter output to make system more reliable, to provide galvanic isolation between source (UPS) & Loads, to provide protection against DC to connected loads and line ripples.	We suggest to keep Isolation transformer at the input side instead of output side for following reason. 1- UPS will be protected and will be using isolation transformer neutral for its control wiring. 2.No issue will be in synchronization due to difference of impedance between two isolation transformer	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
45	**C. Phase Shift Pg 36**	Phase shift angle 120degree+/-1degree for balanced load and 100% unbalanced load		Tender Clause Stands
46	**Battery Preferred Make: LG/Samsung/Panasonic Pg 36**	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	We request you to amend this clause to NMC or NMC + LMO as approved make doesn't manufacture LFP chemistry . LFP chemistry are typically Made in China batteries.	Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged . Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
47	1.7 Qualification Criteria/C/Page No. 7	The OEM should have an average annual turnover of Rs.50 crores in last three financial years. Copy of audited Balance Sheet and P&L Account to be submitted in this regard.	Kindly amend " Bidder should have an average annual turnover of Rs.50 crores in last three financial years. Copy of audited Balance Sheet and P&L Account to be submitted in this regard. "	Corrigendum already issued in this regard. Please check tender section of TPCODL website.
48	1.7 Qualification Criteria/J/Page No. 8	The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	Kindly amend " OEM should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	Corrigendum already issued in this regard. Please check tender section of TPCODL website.
49	**BOQ-Clause no** 1.1 Scope of Work / pg no 6 of 23	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with **Power distribution unit along with Isolation Transforme**r in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank)	Here Power Distributin Units(PDU) are asked along with Isolation Transformer. We understand that these Transformer asked in UPS Specs for isolation can be provided here in PDU is same. Kindly confirm.	Tender Clause Stands
50	1.7 Qualification Criteria / pg no 8 of 23	i) The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	We understand this clause is to follow and read as per **Annexure 5** (Refer Para 5.4) given on pg no 130 of 185 in the RFP.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
51	1.7 Qualification Criteria / pg no 8 of 23	j) The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	This is requested to accept the I&C reports of UPS Installations done at sites of customer for DATA Centre projects. OEM undertaking can be submitted which shall have details of end user for their e-mail id and Contact nos for further enquirynig from TPCODL to verify the performance. Customer certificate specific to installation is not available and most of the customer don't entertain this request. DELTA has installation for more than **100MW in Data Centres in India in past 2-3 years** and this terms specifically keeping us out of competition. Kindly evalute and advice	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
52	Terms of Payment: / pg no 15 of 23	80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	Different payment terms given on two different clauses in RFP. We undersand that the payment term given on pg no 15 or 23 is to be followed for this purchase tender. Kindly advice	Payment term given on pg no 15 or 23 is to be followed
53	**Clause** 7.3 Payment Terms / pg no 15 of 23	As per SCC, Clause number 7.1. (6.0 TERMS OF PAYMENT pg no 52 of 185)		Payment term given on pg no 15 or 23 is to be followed
54	Scope of Work: / pg no 26 of 185	TPCODL is building up a Tier-3 Data Center for which proposals are being invited under this RFP. Bidders are expected to propose their offerings keeping the Tier-3 Data Center aspect in view wherein Server Room is envisaged at 1st Floor, UPS with Battery Room is also in the 1st Floor and the PAC outdoor units shall be placed at Rooftop of G+3.	Request you to kindly arrange to provide following :- 1) Detailed SLD from Mains/D/G power till Server racks 2) Layout planned and the Room dimensions of a) UPS Room b) Battery Room c) LT Panels Room d) Location of Mains Breakers from Power to be taken for Input for LT Panel and UPS Systems e) Confirm the requirement of baseframe with height for UPS and batteries.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
55	---do--	Bidder Scope shall include following: 1. Bidder scope would start from Main LT Panel and onwards including supply of Main LT Panels/ Electrical Panels for powering the proposed equipment.	Please confirm the scope of LT panel, If in UPS vendor scope then please share ACDB panel specs, BOM, SLD etc.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.

56	---do--	2. Required down-stream work for IT UPS power Distribution to Racks, a) Electrical Panels, DBs b) Electrical Cabling, Termination Kits c) Cable Pathways d) All miscellaneous works / Safety equipment's as needed to comply with standards / Regulations	Kindly clarify the scope of work in UPS vendor scope with cable details and BOM :- a) Mains LT Panel to UPS input and output, b) UPS to PDU and further DB/Rack etc. c) Is Earthing work is also in bidder's scope d) Location of Mains Panel and scope of mains panel in bidder's scope	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
57	---do--	4. Battery & UPS should be mounted in the designated area for housing the same. Proposal may also consider housing of additional batteries at the Ground Floor, if required.	Kindly arrange to provide the Room Layout and also pl provide the details of future expansion of Battery back-up desired so that requirement of further space on Ground Floor can be provided	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
58	---do--	5. Delivery at site, unloading, handling, installation of complete system including interconnection from the UPS system to batteries and to input/output panels switches. All interconnections shall be done using multi-strand Flexible Copper conductor cables of appropriate sizes	We understand that the lockable and safe space shall be provided by TPCODL for storing of material on Ground Floor of the same building	Mutual Arrangement can be done with selected bidder for storage of material
59	---do--	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years.	Understand the warranty desired is 5 yrs from the date of supply for UPS and batteries for both 600kVA UPS and 60kVA.(As per page no. 36 & 39 of 185 of RFQ.	As mentioned in Annexure II, Specification and Scope of job
60	---do--	8. The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in high ambient temperature and high humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance	Kindly advice whether we need to plan for design of this LT Panel for 40 deg C ambient or 50 deg C ambeint as this panel will be installed in AC room.	Tender clause is to be read as " The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in 50 Degree centigrade ambient temperature and 90% humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance"
61	---do-- and pg no 27 of 185	9. The equipment shall be designed to confirm to the requirements of: a. IS 4237 - General requirements for switchgear and control gears for voltages not exceeding 1100 volts. b. IS 2147 - Degree of protection provided by enclosures for low voltages switchgear and control gear. c. ARE 375 - Marking and arrangements of bus-bars d. Individual equipment housed in the power control to the following IS specifications: e. Air circuit breakers - IS 2516 (Part I & II/Sec.1) 1977 f. Fuse switch and switch fuse units - IS 4064: 1978. g. HRC fuse links - IS 1108: 1962 or IS 9114: 1979. h. Current Transformer - IS 2705	This seems to be followed whereever appliable with updated standards for LT Panel scope only	Tender clause stands
62	---do-- and pg no 27 of 185	10. Any part though not specifically mentioned, but is required to complete the project in all respect for its safe, reliable, efficient and trouble free operation shall also be taken into account and the same shall be supplied and installed by the bidder without any extra cost.	This is very open term whereas tender scope given in tender document. We understand after arriving at the detailed BoQ during submission of offer and price bid opening shall be final	Tender clause Stands
63	---do-- and pg no 27 of 185	5. Anti-static mat should be provided to cover at least the entire floor area of UPS & Battery room i.e. (19.9 mtr x 8.5 mtr) + (17 mtr x 5.6 mtr) under the scope of this contract.	Anti-static mat shall also be there in front of LT Panels. Kindly evalaute	Tender clause stands
64	---do-- and pg no 27 of 185	16. Any structure, permanent or temporary, dismantled or destroyed during the execution of the work will be refill/ remake or restore to its previous condition by the bidder at its own cost.	Cable/Trench passing through wall need to be kept with provision from TPCODL end. Pl advice	This is to clarify that Cable, laying and Cable trench is in the scope of the bidder.
65	---do-- and pg no 27 of 185	17. Any extra electrical points required in executing the project shall have to be provided by the bidder at its own cost.	Kindly advice approx what % of extra electrical points shall be kept as later wiring/boards fixations would be difficult once plaster & painting inside these rooms(UPS/Battery/LT Panel) are done with. And understand this is not required to be considered in Server Farm area by the bidder of this project	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
66	---do-- and pg no 28 of 185	23. Any IMAC (Install, Move Add Change) to be done by bidder, as and when required	Please clarify.	Movement of components of proposed UPS Solution is under the bidder's scope within the Warranty period.
67	**Clause** 27. Acceptance Testing and Commissioning / pg no 28 of 185	i. After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance.	Kindly advice if during final SAT, Load bank at site are to be arranged by bidder and capacity of load bank, duration of SAT.	Tender clause may be read as " After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance as per available load."
68	**Clause** 30. Warranty Support services: / pg no 28 and 29 of 185	warranty in months or years	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
69	**Clause** 7 / pg no 15 of 185	34. Timeline for Delivery and Installation Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied system/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery. Timeline of 5 weeks shall be considered for the applicability of LD clause.	11 weeks are mentioned on pg no 15 of 23. Kindly advice what would be the delivery period excepted by TPCODL	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
70	**Clause** 35. SLA / Pg no 32 of 185+B33	35. SLA / Penalty Clause- :- For each week delay in commissioning & Handover, penalty amounting to 1% of Contract Value for the undelivered work shall be levied.	1) Understand this is part of I&C Charges only and not of the supply part amount 2). For complete Installation, wiring, testing, commissioning and site acceptance test, provided time is less, consider 30days.	Will remain same as per tender
71	**Clause** 35. SLA / Pg no 32 of 185	Rs 2000 per day delay in carrying out Quaterly PM	PM schedule date of mutul agrrement with User and Service Engineer should consider .A capping of max. 1% of Quaterly PM amount(AMC charges) is requested. Kindly evalaute and advice	Will remain same as per tender
72	**Point no.** 1.2 pg 34 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm 1. Do isolation transformer required, since transformer already considered in PDU at output. If yes, please provide the transformer specification like K rating, winding material, etc. 2. Please confirm input supply available for UPS is with 3 phase +Neutral.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .

73	**Point no.** 4 (f) / pg 35 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
74	**Point no.** 7 / pg 36 of 185	Preferred make of LiB given in RPF are LG/ Samsung/ Panasonic Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Please confirm the battery chemistry requirement. LG & Samsung are offering NMC/LMO type chemistry for UPS Power applications. Kindly evaluate and advice also reconfirm on backup time, generally in all data center application backup time considered 10-15min. at full load in N+N configuration. Considering given 45min. backup time will increase budget exorvitantly.Kindly reconfirm.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
75	**Point no.** 8 / pg 36 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition	For maore clarity need SLD, n LT panel Source 1 & 2 can be provide with changeover function , again do we need to consider for UPS input suppy ATS, please clarify.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
76	**Point no.** 9 / pg 36 of 185	Appropriate LT output panel for powering the racks in full load condition along with industrial NEMA sockets	Kindly share the SLD. NEMA sockets are for powering the 42U Server racks and are not in the scope of bidders, as understood. Pl specifiy what type of NEMA sockets are desired and makes/usage for such sockets	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
77	**Point no.** 10 / pg 36 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	This is requested to accept the I&C reports of UPS Installations of capacity of 500kVA or higher similar product series. DELTA has installation for more than **100MW in Data Centres in India**, in past 2-3 years. Kindly evalute and allow.	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
78	**Point no.** 11 / pg 36 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
79	**Point no.** 11 / pg 36 of 185	Warranty shall start after commissioning sign-off by the owner.	It shall be 5 years(60 months) from the date of sign off or 62 months from the date of delivery, whichever is earlier. Kindly evaluate and clarify	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
80	**Point no.** 01 / pg 37 of 185	The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	SMF batteries are desired in BoQ and specs in below points but here Li-Ion is mentioned. Please confirm can we offer 12V VRLA SMF batteries.	Tender Clause is to be read as "The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with12 V VRLA SMF batteries , shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks."
81	**Point no.** 1.2 / pg 37 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm the transformer K rating and winding Cu or Al to be consider.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
82	**Point no.** 2(h) / pg 37 of 185	UPS must have inbuilt input phase sequence correction and protection feature	For 60kVA UPS, can we consider phase squence protection, UPS will continue in battery mode with warning alarm.	Tender clause stands
83	**Point no.** 4(f) / pg 38 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
84	**Point no.** 7 / pg 38 of 185	SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed **third party type test report IS 1652 :1991** for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Certificate IS **1652"1991** asked here is belong to lead acid Plante wet type battery and not available with any of the OEM mentioned in RFP for SMF batteries. They follow JISC for these SMF 12V SMF batteries. Whether Aging Margin and Design Margin are to be incorporated for battery sizing? Kindly advice.	This clause is to be read as "SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed third party type test report JIS C 8702 -1 for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates."
85	**Point no.** 8 / pg 39 & 40 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition (Input panel to be utilized for 600KVA UPS can be utilized for this purpose)	Please confirm this required separate for 60kVA each UPS . Please provide SLD.	This is to clarify that Optimized solution is envisaged and bidders are requested to propose as per their solution
86	**Point no.** 8 / pg 40 of 185	Appropriate LT output panel for powering the Auxiliary items and lighting on that floor in full load condition	Kindly confirm the scope of this panel in UPS vendor scope and please provide the SLD, BOM and specs of panels.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.

87	**Point no.** 10 / pg 40 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	I&C reports with OEM undertaking with details of end user(Email/Ph no) can be submitted again this requirement. Kindly accept and allow	Tender clause stands
88	**Point no.** 11 / pg 40 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
89	**Clause** 6.3.1 / Pg no 53 of 185	For consumption of TPCODL's Water and Electricity by Associate for execution of Contract, Associate shall pay 0.5% & 1.0% respectively of contract value and it shall be deducted from the running bills.	Kindly advice This may not applicable for UPS vendor, power supply for UPS testing will be provided by TPCODL. if electricity required for I&C, and this is to be paid seperaltely and how this shall be charged to bidder	Power, if available, at site, will be provided during I&C
90	**Clause** 8.0 / Pg no 54 of 185	SECURITY CUM PERFORMANCE DEPOSIT	We understand that the C.P.B.G @ 10% shall be treated as Security as well as Performance with validty till warranty of UPS. No sepeate amount as Security is to be submitted sepeately. Kindly advice	Yes
91	**Clause** 9.5 / pg no 56 of 185	Compliance to Construction and Demolition Waste Management Rules & Environment (Protection) Amendment Rules	This seems to be related to Electrical Distribution Contracts. Kindly advice what kind of demolition is expected from bidder here.	Not applicable
92	**Clause** 13.1 / pg no 60 of 185	MDCC issuance time including inspection time (max.) - 12 days for vendor outside of Bhuaneshwar given	12 days would not be sufficient when material to dispatch from far away factories of OEMs to Bhubaneshwar	Please mentioned delivery period in bid
93	**Clause** 14.2 / pg no 62 of 185	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years. Hope the warranty desired is 5 yr from the date of supply for UPS and batteries for both 600kva and 60kva UPS Systems	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice as mentioned on RFP pg no 36 of 185(600kva) and 39 of 185(60kva)	Already replied above
94	**Pg no** 104 & 105 of 185	4. GENERAL SAFETY CONDITIONS REQUIRED TO BE FULFILLED BY BUSINESS ASSOCIATES 5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL	Crane/Hydra and other related work scope are mentioned considering Electrical Distribution Contracts. We understand that there is no need to put dedicated manpower as mentioned in Clause 5 on pg no 104 for this UPS SITC job. Kindly advice	Not applicable
95	**Pg no** 106 of 185	5.6 Training and Syllabus	we understand that training for a single day for max. 5 people is in bidder's scope. Kindly clarify	TPCODL will provide safety training
96	**Pg no** 130 of 185	Annexure 5 (Refer Para 5.4) SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR	We understand this is required to follow by bidder/OEM engineers, who shall be performing the Installation and Commissioning job at site	Yes
97	**BOQ-Clause no** 1.1 Scope of Work / pg no 6 of 23	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with **Power distribution unit along with Isolation Transforme**r in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank)	Here Power Distributin Units(PDU) are asked along with Isolation Transformer. We understand that these Transformer asked in UPS Specs for isolation can be provided here in PDU is same. Kindly confirm.	Tender Clause Stands
98	1.7 Qualification Criteria / pg no 8 of 23	i) The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	We understand this clause is to follow and read as per **Annexure 5** (Refer Para 5.4) given on pg no 130 of 185 in the RFP.	Qualified and capable engineers should be present during I&C work.
99	1.7 Qualification Criteria / pg no 8 of 23	j) The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	This is requested to accept the I&C reports of UPS Installations done at sites of customer for DATA Centre projects. OEM undertaking can be submitted which shall have details of end user for their e-mail id and Contact nos for further enquirynig from TPCODL to verify the performance. Customer certificate specific to installation is not available and most of the customer don't entertain this request. DELTA has installation for more than **100MW in Data Centres in India in past 2-3 years** and this terms specifically keeping us out of competition. Kindly evalute and advice	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
100	Terms of Payment: / pg no 15 of 23	80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	Different payment terms given on two different clauses in RFP. We undersand that the payment term given on pg no 15 or 23 is to be followed for this purchase tender. Kindly advice	It will be as mentioned in page 15 of 23
101	**Clause** 7.3 Payment Terms / pg no 15 of 23	As per SCC, Clause number 7.1. (6.0 TERMS OF PAYMENT pg no 52 of 185)		Payment term given on pg no 15 or 23 is to be followed
102	Scope of Work: / pg no 26 of 185	TPCODL is building up a Tier-3 Data Center for which proposals are being invited under this RFP. Bidders are expected to propose their offerings keeping the Tier-3 Data Center aspect in view wherein Server Room is envisaged at 1st Floor, UPS with Battery Room is also in the 1st Floor and the PAC outdoor units shall be placed at Rooftop of G+3.	Request you to kindly arrange to provide following :- 1) Detailed SLD from Mains/D/G power till Server racks 2) Layout planned and the Room dimensions of a) UPS Room b) Battery Room c) LT Panels Room d) Location of Mains Breakers from Power to be taken for Input for LT Panel and UPS Systems e) Confirm the requirement of baseframe with height for UPS and batteries.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
103	---do--	Bidder Scope shall include following: 1. Bidder scope would start from Main LT Panel and onwards including supply of Main LT Panels/ Electrical Panels for powering the proposed equipment.	Please confirm the scope of LT panel, If in UPS vendor scope then please share ACDB panel specs, BOM, SLD etc.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.

104	---do--	2. Required down-stream work for IT UPS power Distribution to Racks, a) Electrical Panels, DBs b) Electrical Cabling, Termination Kits c) Cable Pathways d) All miscellaneous works / Safety equipment's as needed to comply with standards / Regulations	Kindly clarify the scope of work in UPS vendor scope with cable details and BOM :- a) Mains LT Panel to UPS input and output, b) UPS to PDU and further DB/Rack etc. c) Is Earthing work is also in bidder's scope d) Location of Mains Panel and scope of mains panel in bidder's scope	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
105	---do--	4. Battery & UPS should be mounted in the designated area for housing the same. Proposal may also consider housing of additional batteries at the Ground Floor, if required.	Kindly arrange to provide the Room Layout and also pl provide the details of future expansion of Battery back-up desired so that requirement of further space on Ground Floor can be provided	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
106	---do--	5. Delivery at site, unloading, handling, installation of complete system including interconnection from the UPS system to batteries and to input/output panels switches. All interconnections shall be done using multi-strand Flexible Copper conductor cables of appropriate sizes	We understand that the lockable and safe space shall be provided by TPCODL for storing of material on Ground Floor of the same building	Mutual Arrangement can be done with selected bidder for storage of material
107	---do--	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years.	Understand the warranty desired is 5 yrs from the date of supply for UPS and batteries for both 600kVA UPS and 60kVA.(As per page no. 36 & 39 of 185 of RFQ.	Please refer Annexure II, Specification and Scope of Work for Guarantee clause.
108	---do--	8. The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in high ambient temperature and high humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance	Kindly advice whether we need to plan for design of this LT Panel for 40 deg C ambient or 50 deg C ambeint as this panel will be installed in AC room.	This clause is to be read as "8. The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in 50 degree centigrade ambient temperature and 90% humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance"
109	---do-- and pg no 27 of 185	9. The equipment shall be designed to confirm to the requirements of: a. IS 4237 - General requirements for switchgear and control gears for voltages not exceeding 1100 volts. b. IS 2147 - Degree of protection provided by enclosures for low voltages switchgear and control gear. c. ARE 375 - Marking and arrangements of bus-bars d. Individual equipment housed in the power control to the following IS specifications: e. Air circuit breakers - IS 2516 (Part I & II/Sec.1) 1977 f. Fuse switch and switch fuse units - IS 4064: 1978. g. HRC fuse links - IS 1108: 1962 or IS 9114: 1979. h. Current Transformer - IS 2705	This seems to be followed whereever appliable with updated standards for LT Panel scope only	Tender clause stands
110	---do-- and pg no 27 of 185	10. Any part though not specifically mentioned, but is required to complete the project in all respect for its safe, reliable, efficient and trouble free operation shall also be taken into account and the same shall be supplied and installed by the bidder without any extra cost.	This is very open term whereas tender scope given in tender document. We understand after arriving at the detailed BoQ during submission of offer and price bid opening shall be final	Tender clause stands
111	---do-- and pg no 27 of 185	5. Anti-static mat should be provided to cover at least the entire floor area of UPS & Battery room i.e. (19.9 mtr x 8.5 mtr) + (17 mtr x 5.6 mtr) under the scope of this contract.	Anti-static mat shall also be there in front of LT Panels. Kindly evalaute	Tender clause stands
112	---do-- and pg no 27 of 185	16. Any structure, permanent or temporary, dismantled or destroyed during the execution of the work will be refill/ remake or restore to its previous condition by the bidder at its own cost.	Cable/Trench passing through wall need to be kept with provision from TPCODL end. Pl advice	This is to clarify that Cable, laying and Cable trench is in the scope of the bidder.
113	---do-- and pg no 27 of 185	17. Any extra electrical points required in executing the project shall have to be provided by the bidder at its own cost.	Kindly advice approx what % of extra electrical points shall be kept as later wiring/boards fixations would be difficult once plaster & painting inside these rooms(UPS/Battery/LT Panel) are done with. And understand this is not required to be considered in Server Farm area by the bidder of this project	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
114	---do-- and pg no 28 of 185	23. Any IMAC (Install, Move Add Change) to be done by bidder, as and when required	Please clarify.	Movement of components of proposed UPS Solution is under the bidder's scope within the Warranty period.
115	**Clause** 27. Acceptance Testing and Commissioning / pg no 28 of 185	i. After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance.	Kindly advice if during final SAT, Load bank at site are to be arranged by bidder and capacity of load bank, duration of SAT.	Tender clause may be read as " After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance as per available load."
116	**Clause** 30. Warranty Support services: / pg no 28 and 29 of 185	warranty in months or years	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
117	**Clause** 7 / pg no 15 of 185	34. Timeline for Delivery and Installation Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied system/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery. Timeline of 5 weeks shall be considered for the applicability of LD clause.	11 weeks are mentioned on pg no 15 of 23. Kindly advice what would be the delivery period excepted by TPCODL	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
118	**Clause** 35. SLA / Pg no 32 of 185+B33	35. SLA / Penalty Clause- :- For each week delay in commissioning & Handover, penalty amounting to 1% of Contract Value for the undelivered work shall be levied.	1) Understand this is part of I&C Charges only and not of the supply part amount 2). For complete Installation, wiring, testing, commissioning and site acceptance test, provided time is less, consider 30days.	This is to clarify that SLA is applicable on complete SITC(Supply, Intallation ,Testing & commissioning)
119	**Clause** 35. SLA / Pg no 32 of 185	Rs 2000 per day delay in carrying out Quaterly PM	PM schedule date of mutul agrrement with User and Service Engineer should consider .A capping of max. 1% of Quaterly PM amount(AMC charges) is requested. Kindly evalaute and advice	Tender clause stands
120	**Point no.** 1.2 pg 34 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm 1. Do isolation transformer required, since transformer already considered in PDU at output. If yes, please provide the transformer specification like K rating, winding material, etc. 2. Please confirm input supply available for UPS is with 3 phase +Neutral.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .

121	**Point no.** 4 (f) / pg 35 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
122	**Point no.** 7 / pg 36 of 185	Preferred make of LiB given in RPF are LG/ Samsung/ Panasonic Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Please confirm the battery chemistry requirement. LG & Samsung are offering NMC/LMO type chemistry for UPS Power applications. Kindly evaluate and advice also reconfirm on backup time, generally in all data center application backup time considered 10-15min. at full load in N+N configuration. Considering given 45min. backup time will increase budget exorvitantly.Kindly reconfirm.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
123	**Point no.** 8 / pg 36 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition	For maore clarity need SLD, n LT panel Source 1 & 2 can be provide with changeover function , again do we need to consider for UPS input suppy ATS, please clarify.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
124	**Point no.** 9 / pg 36 of 185	Appropriate LT output panel for powering the racks in full load condition along with industrial NEMA sockets	Kindly share the SLD. NEMA sockets are for powering the 42U Server racks and are not in the scope of bidders, as understood. Pl specifiy what type of NEMA sockets are desired and makes/usage for such sockets	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
125	**Point no.** 10 / pg 36 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	This is requested to accept the I&C reports of UPS Installations of capacity of 500kVA or higher similar product series. DELTA has installation for more than **100MW in Data Centres in India**, in past 2-3 years. Kindly evalute and allow.	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
126	**Point no.** 11 / pg 36 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
127	**Point no.** 11 / pg 36 of 185	Warranty shall start after commissioning sign-off by the owner.	It shall be 5 years(60 months) from the date of sign off or 62 months from the date of delivery, whichever is earlier. Kindly evaluate and clarify	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
128	**Point no.** 01 / pg 37 of 185	The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	SMF batteries are desired in BoQ and specs in below points but here Li-Ion is mentioned. Please confirm can we offer 12V VRLA SMF batteries.	Tender Clause is to be read as "The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with12 V VRLA SMF batteries , shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks."
129	**Point no.** 1.2 / pg 37 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm the transformer K rating and winding Cu or Al to be consider.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
130	**Point no.** 2(h) / pg 37 of 185	UPS must have inbuilt input phase sequence correction and protection feature	For 60kVA UPS, can we consider phase squence protection, UPS will continue in battery mode with warning alarm.	Tender clause stands
131	**Point no.** 4(f) / pg 38 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
132	**Point no.** 7 / pg 38 of 185	SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed **third party type test report IS 1652 :1991** for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Certificate IS **1652"1991** asked here is belong to lead acid Plante wet type battery and not available with any of the OEM mentioned in RFP for SMF batteries. They follow JISC for these SMF 12V SMF batteries. Whether Aging Margin and Design Margin are to be incorporated for battery sizing? Kindly advice.	This clause is to be read as "SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed third party type test report JIS C 8702 -1 for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates."
133	**Point no.** 8 / pg 39 & 40 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition (Input panel to be utilized for 600KVA UPS can be utilized for this purpose)	Please confirm this required separate for 60kVA each UPS . Please provide SLD.	This is to clarify that Optimized solution is envisaged and bidders are requested to propose as per their solution
134	**Point no.** 8 / pg 40 of 185	Appropriate LT output panel for powering the Auxiliary items and lighting on that floor in full load condition	Kindly confirm the scope of this panel in UPS vendor scope and please provide the SLD, BOM and specs of panels.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.

135	**Point no.** 10 / pg 40 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	I&C reports with OEM undertaking with details of end user(Email/Ph no) can be submitted again this requirement. Kindly accept and allow	Tender clause stands
136	**Point no.** 11 / pg 40 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
137	**Clause** 6.3.1 / Pg no 53 of 185	For consumption of TPCODL's Water and Electricity by Associate for execution of Contract, Associate shall pay 0.5% & 1.0% respectively of contract value and it shall be deducted from the running bills.	Kindly advice This may not applicable for UPS vendor, power supply for UPS testing will be provided by TPCODL. if electricity required for I&C, and this is to be paid seperaltely and how this shall be charged to bidder	Power, if available, at site, will be provided during I&C
138	**Clause** 8.0 / Pg no 54 of 185	SECURITY CUM PERFORMANCE DEPOSIT	We understand that the C.P.B.G @ 10% shall be treated as Security as well as Performance with validty till warranty of UPS. No sepeate amount as Security is to be submitted sepeately. Kindly advice	Yes
139	**Clause** 9.5 / pg no 56 of 185	Compliance to Construction and Demolition Waste Management Rules & Environment (Protection) Amendment Rules	This seems to be related to Electrical Distribution Contracts. Kindly advice what kind of demolition is expected from bidder here.	Not applicable
140	**Clause** 13.1 / pg no 60 of 185	MDCC issuance time including inspection time (max.) - 12 days for vendor outside of Bhuaneshwar given	12 days would not be sufficient when material to dispatch from far away factories of OEMs to Bhubaneshwar	Please mentioned delivery period in bid
141	**Clause** 14.2 / pg no 62 of 185	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years. Hope the warranty desired is 5 yr from the date of supply for UPS and batteries for both 600kva and 60kva UPS Systems	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice as mentioned on RFP pg no 36 of 185(600kva) and 39 of 185(60kva)	Already replied above
142	**Pg no** 104 & 105 of 185	4. GENERAL SAFETY CONDITIONS REQUIRED TO BE FULFILLED BY BUSINESS ASSOCIATES 5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL	Crane/Hydra and other related work scope are mentioned considering Electrical Distribution Contracts. We understand that there is no need to put dedicated manpower as mentioned in Clause 5 on pg no 104 for this UPS SITC job. Kindly advice	Not applicable
143	**Pg no** 106 of 185	5.6 Training and Syllabus	we understand that training for a single day for max. 5 people is in bidder's scope. Kindly clarify	TPCODL will provide safety training
144	**Pg no** 130 of 185	Annexure 5 (Refer Para 5.4) SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR	We understand this is required to follow by bidder/OEM engineers, who shall be performing the Installation and Commissioning job at site	Yes
145	**Point No**.1.7 pg 7 of 185	e) Bidder/ OEM must have service center in State Capital Region of Odisha.	**Please rephase this as below:** e) Bidder/ OEM must have service center in State Capital Region of Odisha/ Nearby state.	Tender Clause Stands
146	**Point no.** 1 pg 34 of 185	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks	Pls confirm , if offered lithium ion batteries needs to be considered UL9540a i.e Fire propagation proof Pls confirm , if offered lIthium ion batteries needs to be considered UL9540a i.e Fire propagation proof for TATA Power safety from mishappening of Entire facility burnout . Also We request you to consider Modular Fault tolerant design UPS . As In this case in 600KW UPS , even if one module fails, the UPS will continue working in reduced capacity	Safety certification for batteries should be IS 16046-1/IEC 62133-1
147	**Point no. 6** pg 35 of 185	1:1 Delta -Star Isolation Transformer must be inbuilt or external at inverter output to make system more reliable, to provide galvanic isolation between source (UPS) & Loads, to provide protection against DC to connected loads and line ripples.	We suggest to keep Isolation transformer at the input side instead of output side for following reason. 1- UPS will be protected and will be using isolation transformer neutral for its control wiring 2. No issue will be in synchronization due to difference of impedance between two isolation transformer	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
148	**Point no. 7** pg 36 of 185	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	We request you to amend this clause to NMC or NMC + LMO as approved make doesn't manufacture LFP chemistry . LFP chemistry are typically Made in China batteries.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
149	**Point no. 4** pg 38 of 185	>95% at any load above 25%	For reducing carbon emission and more energy saving , We request to accept >97% effciency @ 50% and 75% load and greater than >96% effciency @ 25% and 100% load	Tender clause stands
150	**BOQ-Clause no** 1.1 Scope of Work / pg no 6 of 23	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with **Power distribution unit along with Isolation Transformer** in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank)	Here Power Distributin Units(PDU) are asked along with Isolation Transformer. We understand that these Transformer asked in UPS Specs for isolation can be provided here in PDU is same. Kindly confirm.	Tender Clause Stands
151	1.7 Qualification Criteria / pg no 8 of 23	i) The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	We understand this clause is to follow and read as per **Annexure 5** (Refer Para 5.4) given on pg no 130 of 185 in the RFP.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work

152	1.7 Qualification Criteria / pg no 8 of 23	j) The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	This is requested to accept the I&C reports of UPS Installations done at sites of customer for DATA Centre projects. OEM undertaking can be submitted which shall have details of end user for their e-mail id and Contact nos for further enquirynig from TPCODL to verify the performance. Customer certificate specific to installation is not available and most of the customer don't entertain this request. DELTA has installation for more than **100MW in Data Centres in India in past 2-3 years** and this terms specifically keeping us out of competition. Kindly evalute and advice	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
153	□ Terms of Payment: / pg no 15 of 23	80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	Different payment terms given on two different clauses in RFP. We undersand that the payment term given on pg no 15 or 23 is to be followed for this purchase tender. Kindly advice	payment term given on pg no 15 or 23 is to be followed
154	**Clause** 7.3 Payment Terms / pg no 15 of 23	As per SCC, Clause number 7.1. (6.0 TERMS OF PAYMENT pg no 52 of 185)		Payment term given on pg no 15 or 23 is to be followed
155	Scope of Work: / pg no 26 of 185	TPCODL is building up a Tier-3 Data Center for which proposals are being invited under this RFP. Bidders are expected to propose their offerings keeping the Tier-3 Data Center aspect in view wherein Server Room is envisaged at 1st Floor, UPS with Battery Room is also in the 1st Floor and the PAC outdoor units shall be placed at Rooftop of G+3.	Request you to kindly arrange to provide following :- 1) Detailed SLD from Mains/D/G power till Server racks 2) Layout planned and the Room dimensions of a) UPS Room b) Battery Room c) LT Panels Room d) Location of Mains Breakers from Power to be taken for Input for LT Panel and UPS Systems e) Confirm the requirement of baseframe with height for UPS and batteries.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
156	---do--	Bidder Scope shall include following: 1. Bidder scope would start from Main LT Panel and onwards including supply of Main LT Panels/ Electrical Panels for powering the proposed equipment.	Please confirm the scope of LT panel, If in UPS vendor scope then please share ACDB panel specs, BOM, SLD etc.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
157	---do--	2. Required down-stream work for IT UPS power Distribution to Racks, a) Electrical Panels, DBs b) Electrical Cabling, Termination Kits c) Cable Pathways d) All miscellaneous works / Safety equipment's as needed to comply with standards / Regulations	Kindly clarify the scope of work in UPS vendor scope with cable details and BOM :- a) Mains LT Panel to UPS input and output, b) UPS to PDU and further DB/Rack etc. c) Is Earthing work is also in bidder's scope d) Location of Mains Panel and scope of mains panel in bidder's scope	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
158	---do--	4. Battery & UPS should be mounted in the designated area for housing the same. Proposal may also consider housing of additional batteries at the Ground Floor, if required.	Kindly arrange to provide the Room Layout and also pl provide the details of future expansion of Battery back-up desired so that requirement of further space on Ground Floor can be provided	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
159	---do--	5. Delivery at site, unloading, handling, installation of complete system including interconnection from the UPS system to batteries and to input/output panels switches. All interconnections shall be done using multi-strand Flexible Copper conductor cables of appropriate sizes	We understand that the lockable and safe space shall be provided by TPCODL for storing of material on Ground Floor of the same building	Mutual Arrangement can be done with selected bidder for storage of material
160	---do--	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years.	Understand the warranty desired is 5 yrs from the date of supply for UPS and batteries for both 600kVA UPS and 60kVA.(As per page no. 36 & 39 of 185 of RFQ.	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
161	---do--	8. The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in high ambient temperature and high humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance	Kindly advice whether we need to plan for design of this LT Panel for 40 deg C ambient or 50 deg C ambeint as this panel will be installed in AC room.	Tender caluse may be read as "The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in 50 deg ambient temperature and 90% humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance"
162	---do-- and pg no 27 of 185	9. The equipment shall be designed to confirm to the requirements of: a. IS 4237 - General requirements for switchgear and control gears for voltages not exceeding 1100 volts. b. IS 2147 - Degree of protection provided by enclosures for low voltages switchgear and control gear. c. ARE 375 - Marking and arrangements of bus-bars d. Individual equipment housed in the power control to the following IS specifications: e. Air circuit breakers - IS 2516 (Part I & II/Sec.1) 1977 f. Fuse switch and switch fuse units - IS 4064: 1978. g. HRC fuse links - IS 1108: 1962 or IS 9114: 1979. h. Current Transformer - IS 2705	This seems to be followed whereever appliable with updated standards for LT Panel scope only	Tender caluse may be read as "The Low Tension (LT) Panel shall be metal clad, totally enclosed, rigid, floor mounting, air insulated, cubical type for use on 415 volts, 3 phase, 4 Wire 50 cycles system. The equipment shall be designed for operation in 50 deg ambient temperature and 90% humidity tropical atmospheric conditions. There shall be provision to facilitate ease of inspection, cleaning and repairs, for use in installations where continuity of operation is of prime importance"
163	---do-- and pg no 27 of 185	10. Any part though not specifically mentioned, but is required to complete the project in all respect for its safe, reliable, efficient and trouble free operation shall also be taken into account and the same shall be supplied and installed by the bidder without any extra cost.	This is very open term whereas tender scope given in tender document. We understand after arriving at the detailed BoQ during submission of offer and price bid opening shall be final	Tender clause stands
164	---do-- and pg no 27 of 185	5. Anti-static mat should be provided to cover at least the entire floor area of UPS & Battery room i.e. (19.9 mtr x 8.5 mtr) + (17 mtr x 5.6 mtr) under the scope of this contract.	Anti-static mat shall also be there in front of LT Panels. Kindly evalaute	Tender Clause Stands
165	---do-- and pg no 27 of 185	16. Any structure, permanent or temporary, dismantled or destroyed during the execution of the work will be refill/ remake or restore to its previous condition by the bidder at its own cost.	Cable/Trench passing through wall need to be kept with provision from TPCODL end. Pl advice	This is to clarify that Cable, laying and Cable trench is in the scope of the bidder.

166	---do-- and pg no 27 of 185	17. Any extra electrical points required in executing the project shall have to be provided by the bidder at its own cost.	Kindly advice approx what % of extra electrical points shall be kept as later wiring/boards fixations would be difficult once plaster & painting inside these rooms(UPS/Battery/LT Panel) are done with. And understand this is not required to be considered in Server Farm area by the bidder of this project	Tender clause Stands and bidder must carry out site visit and propose as per site conditions
167	---do-- and pg no 28 of 185	23. Any IMAC (Install, Move Add Change) to be done by bidder, as and when required	Please clarify.	Movement of components of proposed UPS Solution is under the bidder's scope within the Warranty period.
168	**Clause** 27. Acceptance Testing and Commissioning / pg no 28 of 185	i. After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance.	Kindly advice if during final SAT, Load bank at site are to be arranged by bidder and capacity of load bank, duration of SAT.	Tender clause may be read as " After installation and configuration of each system, integrating various systems and providing various services, tests shall be conducted for system performance as per available load."
169	**Clause** 30. Warranty Support services: / pg no 28 and 29 of 185	warranty in months or years	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
170	**Clause** 7 / pg no 15 of 185	34. Timeline for Delivery and Installation Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied system/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery. Timeline of 5 weeks shall be considered for the applicability of LD clause.	11 weeks are mentioned on pg no 15 of 23. Kindly advice what would be the delivery period excepted by TPCODL	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
171	**Clause** 35. SLA / Pg no 32 of 185+B33	35. SLA / Penalty Clause- :- For each week delay in commissioning & Handover, penalty amounting to 1% of Contract Value for the undelivered work shall be levied.	1) Understand this is part of I&C Charges only and not of the supply part amount 2). For complete Installation, wiring, testing, commissioning and site acceptance test, provided time is less, consider 30days.	This is to clarify that SLA is applicable on complete SITC(Supply, Intallation ,Testing & commissioning)
172	**Clause** 35. SLA / Pg no 32 of 185	Rs 2000 per day delay in carrying out Quaterly PM	PM schedule date of mutul agrrement with User and Service Engineer should consider .A capping of max. 1% of Quaterly PM amount(AMC charges) is requested. Kindly evalaute and advice	Tender clause stands
173	**Point no.** 1.2 pg 34 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm 1. Do isolation transformer required, since transformer already considered in PDU at output. If yes, please provide the transformer specification like K rating, winding material, etc. 2. Please confirm input supply available for UPS is with 3 phase +Neutral.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
174	**Point no.** 4 (f) / pg 35 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
175	**Point no.** 7 / pg 36 of 185	Preferred make of LiB given in RPF are LG/ Samsung/ Panasonic Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Please confirm the battery chemistry requirement. LG & Samsung are offering NMC/LMO type chemistry for UPS Power applications. Kindly evaluate and advice also reconfirm on backup time, generally in all data center application backup time considered 10-15min. at full load in N+N configuration. Considering given 45min. backup time will increase budget exorvitantly.Kindly reconfirm.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
176	**Point no.** 8 / pg 36 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition	For maore clarity need SLD, n LT panel Source 1 & 2 can be provide with changeover function , again do we need to consider for UPS input suppy ATS, please clarify.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
177	**Point no.** 9 / pg 36 of 185	Appropriate LT output panel for powering the racks in full load condition along with industrial NEMA sockets	Kindly share the SLD. NEMA sockets are for powering the 42U Server racks and are not in the scope of bidders, as understood. Pl specifiy what type of NEMA sockets are desired and makes/usage for such sockets	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
178	**Point no.** 10 / pg 36 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	This is requested to accept the I&C reports of UPS Installations of capacity of 500kVA or higher similar product series. DELTA has installation for more than **100MW in Data Centres in India**, in past 2-3 years. Kindly evalute and allow.	Tender Clause is to be read as "The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates/Installation reports should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work."
179	**Point no.** 11 / pg 36 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
180	**Point no.** 11 / pg 36 of 185	Warranty shall start after commissioning sign-off by the owner.	It shall be 5 years(60 months) from the date of sign off or 62 months from the date of delivery, whichever is earlier. Kindly evaluate and clarify	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
181	**Point no.** 01 / pg 37 of 185	The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	SMF batteries are desired in BoQ and specs in below points but here Li-Ion is mentioned. Please confirm can we offer 12V VRLA SMF batteries.	Tender Clause is to be read as "The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with12 V VRLA SMF batteries , shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks."

182	**Point no.** 1.2 / pg 37 of 185	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	Please confirm the transformer K rating and winding Cu or Al to be consider.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
183	**Point no.** 2(h) / pg 37 of 185	UPS must have inbuilt input phase sequence correction and protection feature	For 60kVA UPS, can we consider phase squence protection, UPS will continue in battery mode with warning alarm.	Tender clause stands
184	**Point no.** 4(f) / pg 38 of 185	IP20 (Should be backed with recent certification within past 2 Years)	Please note IP rating test covered in type test report and conducted during the product(model) is launched so reports would be older than 2 years for OEMs who lauched the proposed model earlier than any other OEM who launched it in last 2 years. Kindly evaluate and accept	Tender clause stands
185	**Point no.** 7 / pg 38 of 185	SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed **third party type test report IS 1652 :1991** for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	Certificate IS **1652"1991** asked here is belong to lead acid Plante wet type battery and not available with any of the OEM mentioned in RFP for SMF batteries. They follow JISC for these SMF 12V SMF batteries. Whether Aging Margin and Design Margin are to be incorporated for battery sizing? Kindly advice.	This clause is to be read as "SMF Battery bank from reputed make as mentioned below with 60 minutes backup in full load condition. Vendor should submit a detailed third party type test report JIS C 8702 -1 for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates."
186	**Point no.** 8 / pg 39 & 40 of 185	Appropriate LT input panel with dual input having auto changeover functionality for powering the UPS with full load condition (Input panel to be utilized for 600KVA UPS can be utilized for this purpose)	Please confirm this required separate for 60kVA each UPS . Please provide SLD.	This is to clarify that Optimized solution is envisaged and bidders are requested to propose as per their solution
187	**Point no.** 8 / pg 40 of 185	Appropriate LT output panel for powering the Auxiliary items and lighting on that floor in full load condition	Kindly confirm the scope of this panel in UPS vendor scope and please provide the SLD, BOM and specs of panels.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
188	**Point no.** 10 / pg 40 of 185	Offered Model should be installed & running in field from minimum 3 Years. Provide relevant documents for three different customers as proof for same or higher rating of offered Model.	I&C reports with OEM undertaking with details of end user(Email/Ph no) can be submitted again this requirement. Kindly accept and allow	Tender clause stands
189	**Point no.** 11 / pg 40 of 185	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	Format in BoQ is not given for CMS quote	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
190	**Clause** 6.3.1 / Pg no 53 of 185	For consumption of TPCODL's Water and Electricity by Associate for execution of Contract, Associate shall pay 0.5% & 1.0% respectively of contract value and it shall be deducted from the running bills.	Kindly advice This may not applicable for UPS vendor, power supply for UPS testing will be provided by TPCODL. if electricity required for I&C, and this is to be paid seperaltely and how this shall be charged to bidder	If electricity is available at site, same will be provided during I&C
191	**Clause** 8.0 / Pg no 54 of 185	SECURITY CUM PERFORMANCE DEPOSIT	We understand that the C.P.B.G @ 10% shall be treated as Security as well as Performance with validty till warranty of UPS. No sepeate amount as Security is to be submitted sepeately. Kindly advice	Yes only CPBG @10% of contract value is required.
192	**Clause** 9.5 / pg no 56 of 185	Compliance to Construction and Demolition Waste Management Rules & Environment (Protection) Amendment Rules	This seems to be related to Electrical Distribution Contracts. Kindly advice what kind of demolition is expected from bidder here.	Not applicable
193	**Clause** 13.1 / pg no 60 of 185	MDCC issuance time including inspection time (max.) - 12 days for vendor outside of Bhuaneshwar given	12 days would not be sufficient when material to dispatch from far away factories of OEMs to Bhubaneshwar	Please mention delivery time in your bid
194	**Clause** 14.2 / pg no 62 of 185	Guarantee Period - 15 / 24 months given whereas technical spec given on pg no 36 of 185 says 5 years. Hope the warranty desired is 5 yr from the date of supply for UPS and batteries for both 600kva and 60kva UPS Systems	We understand that the warranty asked in UPS tech specs i.e 5 years shall be vaild from the date of SAT or 62 months from the supply of material, whichever is earlier. Kindly advice as mentioned on RFP pg no 36 of 185(600kva) and 39 of 185(60kva)	This is to again clarify that 5 Years' Warranty shall start after commissioning sign-off by the owner.
195	**Pg no** 104 & 105 of 185	4. GENERAL SAFETY CONDITIONS REQUIRED TO BE FULFILLED BY BUSINESS ASSOCIATES 5. QUALIFICATION AND EXPERIENCE OF THE SAFETY AND SITE PERSONNEL	Crane/Hydra and other related work scope are mentioned considering Electrical Distribution Contracts. We understand that there is no need to put dedicated manpower as mentioned in Clause 5 on pg no 104 for this UPS SITC job. Kindly advice	Safety and Statutory compliance to be met during site work as mentioned in the tender.
196	**Pg no** 106 of 185	5.6 Training and Syllabus	we understand that training for a single day for max. 5 people is in bidder's scope. Kindly clarify	Safety training will be provided by TPCODL, if required, before site work
197	**Pg no** 130 of 185	Annexure 5 (Refer Para 5.4) SKILL / QUALIFICATION REQUIRED FOR ELECTRICIAN AND ELECTRICAL SUPERVISOR	We understand this is required to follow by bidder/OEM engineers, who shall be performing the Installation and Commissioning job at site	Yes
198	1.1. Scope of Work:	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank)	We understand that the total load considering all the server racks etc amounts to 425 KW of load. For that load an UPS with 500 KW of frame is enough to cater that amount of load. Considering 600 KW frame will mean oversizing of UPS capacity which can lead to cost additions. Request to kindly accept 500 KW UPS frames as most UPS OEMs are coming up with 500 KW frames as standard. Please amend the requirement to 500 KW/ 600 KW UPS Frame requirement where every OEM can offer the standard frame size.	Tender clause Stands
199	1.1. Scope of Work:	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration and LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank) Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning	Since the available load at site around 450 KW, request to kindly amend the back on load of 450 KW or 500 KW to avoid oversizing on the available load.	Tender clause Stands

200	1.1 General Description	System design should be such that it can be connected in parallel even after the installation of the first unit without shutting down running unit (hot insertion). Similarly, it should be possible to take out one unit for maintenance from parallel group without affecting other running units. Parallel UPS systems should have redundant communications cables and cards so that if one communication cable fails, systems can work in parallel.	Hot insertion of UPS frames is not recommended in live condition as there may be possibilities of electrical hazards. It is always recommended to put the UPS on bypass and operate. It is highly recommended to use paralleling kit which is a standard safe option available with all UPS OEMs. Requesting to amend the clause by omitting electrical hazard clauses.	Tender clause Stands
201	1.2 Galvanic isolation of neutral	Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system).	As per the IEEE 1100-2005 clause number 7.2.12.4 (UPS system configuration) it is strictly mentioned that the availability and reliability of UPS is highly dependent on system configuration, thus disabling static bypass puts the UPS availbility from 99% to <92% which actually affects mission critical loads. Hense Omit the clause. Futhermore, inbuilt transformer cant provide total galvanic isolation till the time the bypass is disabled, hense only allow external isolation transformers.	Tender clause Stands
202	1.3 Compliance to Standards like IEC, EN, CE UL etc.	UPS System performance, safety and EMC EMI compatibility must be in compliance with relevant standards Like IEC, EN, IEEE. (IEC 62040-1, 2 & 3), CE or UL Certified.	CE certification and UL certification are not equivalent. CE is the basic test certification required by any UPS vendor to sell product in commercial market whereas UL RP 2986 certification actually focusses on the safety aspect.Incident Arc Energy in front of product with top cover bolted and power module inserted or removed is <1.2 cal/cm²	This clause is to be read as "UPS System performance, safety and EMC EMI compatibility and environment must be in compliance with relevant standards Like IEC, EN, IEEE. (IEC 62040-1, 2 & 3) along with CE or UL Certification ."
203	3 UPS Output	a) Rated power 600KVA b) Active Power 600KVA @Unity PF	Kindly amend the rated power of the UPS to 500 KVA and active power at 500 KW @ Unity PF	Tender clause Stands
204	4 System	a) Efficiency >95% at any load above 25%	Request to increase the efficiency value to >96.5% at >25% as higher the efficiency of the UPS , higher is the savings on electricity cost every year till the service life of an UPS.	Tender clause Stands
205	4 System	k) Maintenance / Service Bypass Manual maintenance bypass or Service bypass must be inbuilt with each UPS.	Maintence bypass for UPS ratings >200 KVA doesn't come as an inbuilt feature nowadays as certain risk factors are associated as higher rated UPS deals with high current value. Request to accept or amend external maintainence bypass panel as safety is a cruicial aspect.	Tender clause Stands
206	6. Other feature	c) Phase Shift Phase shift angle 120degree+/-1degree for balanced load and 100% unbalanced load	Request to amend the phase shift angle as 120 degree +/- 3 degree for 100% unbalanced load.	Tender Clause Stands
207	7 Battery Preferred Make: LG/ Samsung/ Panasonic	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates	Since the preffered battery make is LG/ Samsung or Panasonic, LG and Samsung doesn't manufacture LFP chemistry batteries for commercial use. Samsung make LMO-NMC and LG makes NMC chemistry batteries. Hence kindly amend amend the clause to LMO-NMC/NMC/LFP. Also since these battery modules are manufactured outside India, so they follow UL9540A certification. Kindly accept	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
208	Technical Specs 60 KVA UPS with 60 Minutes Backup		The above points are same for 60 KVA UPS requirement.	
209	Technical Specs 60 KVA UPS with 60 Minutes Backup	h) Overload capacities 105% continuous	Our proposed UPS has overload capacity of 105% for 10 mins, requesting for acceptance.	This clause is to be read as "h) Overload capacities 105% continuous for minimum 10 Mins."
210	Annexure A	2) Earnest Money Deposit (EMD) EMD shall be exempted for MSME registered in the State of Odisha. However, Bidder shall be barred to participate in the tendering process for a period of 2 years in case it backs out post award of the contract.	It is requested to kindly allow the exmption of MSME units registered anywhere in India. This will allow wider participation providing benefit of competeion to the department.	At this moment exemption is applicable for Odisha based MSME only at TPCODL
211	Scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning. Lithium Ion battery with chemistry for higher boost shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks.	Pls confirm , if offered lithium ion batteries needs to be considered UL9540a i.e Fire propagation proof Pls confirm , if offered lIthium ion batteries needs to be considered UL9540a i.e Fire propagation proof for TATA Power safety from mishappening of Entire facility burnout . Also We request you to consider Modular Fault tolerant design UPS . As In this case in 600KW UPS , even if one module fails, the UPS will continue working in reduced capacity	Safety certification for batteries should be IS 16046-1/IEC 62133-1
212	Galvanic isolation of neutral	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output. System should be capable of On-Line double conversion operating on 3 phase input supply while providing 3 Ph+Neutral output supply to the connected loads. Being in Parallel Dual bus configuration bypass operation should be disabled (bypass enable & disable feature should be there as standard in system)	We suggest to keep Isolation transformer at the input side instead of output side for following reason. 1- UPS will be protected and will be using isolation transformer neutral for its control wiring 2. No issue will be in synchronization due to difference of impedance between two isolation transformer	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
213	b) Isolation Transformer	1:1 Delta -Star Isolation Transformer must be inbuilt or external at inverter output to make system more reliable, to provide galvanic isolation between source (UPS) & Loads, to provide protection against DC to connected loads and line ripples.	We suggest to keep Isolation transformer at the input side instead of output side for following reason. 1- UPS will be protected and will be using isolation transformer neutral for its control wiring 2. No issue will be in synchronization due to difference of impedance between two isolation transformer	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
214	c) Phase Shift	Phase shift angle 120degree+/-1degree for balanced load and 100% unbalanced load		Tender Clause Stands

215	**Battery Preferred Make: LG/ Samsung/ Panasonic**	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	We request you to amend this clause to NMC or NMC + LMO as approved make doesn't manufacture LFP chemistry . LFP chemistry are typically Made in China batteries.	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
216	**a) Efficiency**	>95% at any load above 25%	For reducing carbon emission and more energy saving , We request to accept >97% effciency @ 50% and 75% load and greater than >96% effciency @ 25% and 100% load	Tender clause stands
217	1.7 Qualification Criteria	i) The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	It is requested to kindly remove the Clause "Bidder should also provide resume with Electrical Supervisor license from EIC (Electrical) Odisha" as the OEM will take care of the Installation & Maintenance of the UPS Systems. Also, the specific clause is restrictive, removing this clause will provide wider participation of OEMs providing benefit of competition to the department.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
218	General Requirements from OEM / Bidder	vi. The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.		Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
219	Page No.- 2,EMD	EMD- 2,00,000	We request you to kindly give the percentage of EMD, so that we can calculate the estimated cost of project for internal working of financial quote.	No such criteria exist
220	Page No.-7, Qualification Criteria	c) The OEM should have an average annual turnover of Rs.50 crores in last three financial years. Copy of audited Balance Sheet and P&L Account to be submitted in this regard.	Since there is a possibility of OEMs participating through an authorized channel partner, we request that to department please clarify this clause is applicable on "OEM or Channel Partner" or "on both"	Please refer corrigendum 1 already issued
221	Page No.-8, Qualification Criteria	The bidder must have resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronic Engineering' or specialized certification from OEMs for offered products. Bidder must submit resource resume and valid certificate along with the bid document. Bidder should also provide resume with appropriate Electrical Supervisor license from EIC (Electrical), Odisha.	We request to the department kindly revise this clause as "The bidder must submit an undertaking to deploy resources as per details below with minimum 3 years of experience in handling the offered components for the modern Data Centre. These resources should possess minimum qualification – 'Diploma in Electrical / Electronics Engineering' or specialized certification from OEMs for offered products. Bidder should also deploy Electrical Supervisor license from EIC (Electrical), Odisha.Since, ourorganization has valid electrical license & presently we are not having any project in Odisha state.After award of this tender we will be recruit required manpower as per this clause.	Tender Clause Stands , However selected bidder must submit the appropriate Electrical Supervisor license from EIC (Electrical), Odisha. Prior to execution of work
222	Page No.-8, Qualification Criteria	The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years. Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	We request you to change as :The bidder should have implemented such sized (total capacity of UPS i.e. 1320 KVA) Projects in Data Centre environment in last 7 years as per following criteria-	Tender Clause Stands
			1.1 One similar completed work not less than the size equal to 80 (eighty) percent of the total capacity. Or	Tender Clause Stands
			1.2 Two similar completed work not less than the size equal to 50 (fifty) percent of the total capacity .or	Tender Clause Stands
			1.3 Three similar completed work not less than the size equal to 40 (forty) percent of the total capacity.	Tender clause stands
			Such work completion certificates should be furnished and TPCODL may verify such certificates independently or may opt to visit such locations to ascertain the quality of work.	Tender Clause Stands
223	Page No.- 15,Terms of Payment	80% payment will be made within 60 days from the date of receipt of all materials and submission of certified bill. Balance 20% shall be released within 30 days from the date of successful commissioning and submission of certified bill to TP Central Odisha Distribution Limited's Invoice Desk.	As per the RFP Document, there are two Payment Terms given, Please give clarification, which clause could be considered.	Already replied above
224	Page No.- 5152, Terms of Payment	1. 5% of the Release Order/ Purchase Order price shall be paid as initial interest free advance on fulfillment of the following by the Associate:		payment term given on pg no 15 or 23 is to be followed. No advance money is applicable.
		2. 10% of the Release Order/ Purchase Order price shall be paid as interest free advance against approval of drawings under Category-1 of major drawings, Quality Plans, Pert Chart, Field Quality Plan, posting of Project Manager and commencement of the first mile stone of the work mutually agreed including C3 Form, and submission of a true copy of 'Erection All Risk Insurance Policy' taken for the awarded jobs. The drawing list shall be mutually agreed at the time of award of work.		
		3. 50% on account payment of the total of item wise cost of material Release Order/ Purchase Order shall be paid against receipt of material at site in good condition and certification by TPCODL along with bills complete in all		
		respects viz. MDCCs etc.		
		4. 20% on account payment of the actual executed value shall be paid against mechanical completion of erection on prorate basis against monthly bills and 70% on account of the actual executed value shall be paid against the service line item including composite line item.		
		5. 15% payment of the actual executed Release Order/ Purchase Order shall be paid after completion of acceptance test		

		and Taking Over of the complete systems specified in the enquiry, including clearance of Electrical Inspection, compliance of final punch point and after reconciliation & adjustment of payments,		
225	Page No.- 32, Timeline for Delivery and Installation	Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied system/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery. Timeline of 5 weeks shall be considered for the applicability of LD clause.	Since, the project execution is typical, so we request you to kindly revise the Delivery Timelines as - "Bidder is required to deliver the solution at given site within 8 weeks & supplied system should be installed within 4 weeks from the date of delivery."	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
226	Page No.- 31, SLA / Penalty Clause	For each week delay in commissioning &Handover, penalty amounting to 1% of Contract Value for the undelivered work shall be levied.	We request to the department kindly revise the penalty amounting 0.5% from 1%.	Will remain same as per tender
227	Page No.- 30, Training	i. Practical Training to the Electrical and IT staff of TPCODL should be given. ii. The training should cover all the aspects of functioning, maintenance and monitoring of the supplied solution. iii. Course material for the above (one copy each per participant) to be provided	Kindly give the clarity on Duration & Number of participants for training.	This is to clarify that training to be given to Maximum 10 participants for 2 to 3 days depending upon the OEM course material
228	Page No.- 36, Technical Specs	1- 05 Years OEM onsite warranty support	Kindly give clarity on given clause whether the additional warranty is mandatory & also part of financial quotation or not?	Additional warranty of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
		2- Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.		Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
229	general requirement point no. vii	The bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years.	we request to make it OEM or bidder should have implemented minimum three such sized or higher sized Projects in Data Centre environment in last 5 years.	Tender Clause Stands
230	Timeline for Delivery and Installation	Bidder is required to deliver the solution within 8 weeks from the date of issue of Purchase Order. Supplied ystem/ solution should be installed, configured and commissioned in 3 weeks from the Date of Delivery.	we request to make the delivery period to 14 to 16 weeks	This is to clarify that : Delivery, Installation & completion period shall be within 8 weeks from the date of intimation post PO issuance
231	Scope	The specification aims for the procurement of 2 x 600KVA online modular UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output	Kindly clarify modular means modular construction of UPS or discrete hot swappable power modules of 50 KW / 60KW	Tender Clause Stands
232	Galvanic Isolation Transformer	UPS System should have inbuilt or external 1:1 Delta-Star isolation transformer at inverter input / output.	we request the Transformer should be at the input of both the UPS system	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
233	UPS Input (Current distortion)	<5% with linear and non-linear load	we request to make < 3% as per global standard	Tender clause stands
234	UPS input (Input Phase Sequence correction)	UPS must have inbuilt input phase sequence correction and protection feature	We request to make UPS with built-in feature of Phase sequence protection	Tender clause stands
235	Output b) Active Power	600KVA @Unity PF	we request to make it 600KVA @ unity power at 0 to 40 deg C	Tender clause Stands
236	System a) Efficiency	>95% at any load above 25%	We request to make it >97% at any load above 25%	Tender clause stands
237	System k) Maintenance / Service Bypass	Manual maintenance bypass or Service bypass must be inbuilt with each UPS.	Bypass module should be hot swappable type	Tender clause Stands
238	Other features b) Isolation Transformer	1:1 Delta -Star Isolation Transformer must be inbuilt or external at inverter output to make system more reliable, to provide galvanic isolation between source (UPS) & Loads, to provide protection against DC to connected loads and line ripples.	Delta - star transformer should be provuded at input of UPS.	High availability/Redundancy is envisaged for each set (1+1) of 600 KVA UPS.Hence, it is to clarify that each UPS must have isolation Transformer. Further, this is to clarify that ,Isolation transformer is to be placed at appropriate end as per the best practices followed in the industry.Accordingly solution should be proposed by the bidder. Moreover, this is to clarify that transformer with K13 standard with CU winding has been envisaged .
239	LT panel	Appropriate LT output panel for powering the racks in full load condition along with industrial NEMA sockets	Kindly provide output feeder details to design the out put LT panel. Also kindly clarify no. of LT output panels to offer for the entire servr Racks.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.
240	Other feature (Battery Preferred Make: LG/ Samsung/ Panasonic)	Li-ION LFP Battery bank from reputed make as mentioned below with 45 minutes backup in full load condition. Vendor should submit a detailed third party type test report wr.t. IS 63003-4 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.	we request make the LI-ION Battery with NMC chemistry	Tender clause may be read as " Li-ION battery bank from reputed make as mentioned below with 45 minutes backup in full load condition.Vendor should submit a detailed third party type test report wr.t. IS IS 16046-1/IEC 62133-1 (Safety of LI-Ion Batteries) standard for the offered model (< 2 years old certificate) Relevant Indian Safety standard should be adhered to along with submission of such certificates.."
241		LI-ION Battery with 45 minutes backup in full load condition	We request to clarify 45 min back up to calculated on BOL(Beginning of life)or EOL (end of life)	Tender clause may be read as "LI-ION Battery with 45 minutes backup in full load condition till end of warranty period"

242	Additional	Switch gear	UPS should have all switches (at UPS input, at UPS output, at input of static bypass and input of maintenance bypass) integrated in UPS panel.	This is to clarify that additional features are welcome and non-availability of additional feature shall not result in disqualification.
243	Additional	UPS load power factor	UPS should be suitable to support load power factor fro 0.5 lag to 0.5 lead without derating.	This is to clarify that additional features are welcome and non-availability of additional feature shall not result in disqualification.
244	Warranty & Support	Additional 5 years onsite comprehensive maintenance support (CMS) should be provided by the OEM. OEM should mandatorily agree to the same and provide CMS quotation and ordering for the same shall be taken up after initial warranty support contract. MAF to be submitted.	we request to take the CAMC offer after expiry of 5 years warranty.	Additional warranty including CMS of at least 2 years is mandatory and Additional warranty price is not to be taken into consideration at this stage.
245	Scope	The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with Li-Ion Battery and at 0.9 load power factor till end of 5th year from the date of commissioning.	Kindly confirm if 60 KVA UPS to be offered with LI-ION Battery.	Tender Clause is to be read as "The specification aims for the procurement of 1 x 60KVA online UPS (N+N configuration) with 3 Phase input and 3 Phase plus Neutral (N) output in dual bus configuration with IEC 62040-3 compliance, fully microprocessor controlled & fully digital UPS Systems along with12 V VRLA SMF batteries , shall be provided with accessories Like battery Housing MS racks, battery inter-connecting links, Battery circuit breaker (DC Isolater with Semiconductor Fuses) and cable between UPS & Battery Banks."
246	UPS Input d) Current distortion	<5% with linear and non-linear load	we request to make it < 3%	Tender clause stands
247	Other features (LT panel)	Appropriate LT output panel for powering the Auxiliary items and lighting on that floor in full load condition	Kindly provide output feeder details to design the LT output panel.	This is to clarify that the entire solution including LT panel and cabling is under the scope of Bidder and bidders are requested to propose the appropriate best in class solution as per the site condition for all components including Earthing,NEMA sockets for 200 racks for the proposed solution. Bidders are again advised to carry out site visit and due diligence prior to bidding to understand about area layout including the height and relevant civil & electrical details.

Annexure-I, Price Schedule,Rev 1

Sl No	Item Description	Qty	UOM	Rate (Rs/Set)	Amount (Rs)	GST Amount(Rs)	Total with GST (Rs)
1	SITC of 600 KVA UPS System 3Ph/ 3Ph. With Battery circuit breaker, SNMP card and Paralleling kit to work in N+N configuration – Set along with Power distribution unit along with Isolation Transformer in N+N configuration	2	Set				
2	SITC of 60 KVA UPS in N+N configuration for auxiliary load and emergency lighting (SCADA Display Panel, IT Display Panel, Camera, Access Control & Biometric) – Set	1	Set				
3	LI-ION Battery with 0.75 hour back up on 600KVA load (Battery Bank) for 600 KVA UPS as per sl no 1 above.	2	Set				
4	SMF Battery for 1 hour back up for 60 KVA UPS as per sl no 2 above.	1	Set				

NOTE:

i) Scope of job of the UPS System will be as per attached specification. Annexure II.

ii) All rates are to be quoted on delivered basis at TPCODL-Bhubaneswar, Odisha and should be inclusive of freight, insurance, loading & unloading, handling charges and any other charges

which may be applicable.

iii)The bids will be evaluated on all-inclusive lowest cost of complete SITC work

iv) The bidders are advised to quote prices strictly in the above format. Failing to do so, bids are liable for rejection.

v) The bidder must fill each and every column of the above format. Mentioning “extra/inclusive” in any of the column may lead for rejection of the price bid.

vi) No cutting/ overwriting in the prices is permissible.

vii) Installation, testing and commissioning charges should be worked out considering statutory requirements as mentioned in clause 11 of tender document.