CORRIGENDUM – X to TENDER NOTICE NO. SLDC-03/2023-24

TENDER NOTICE NO. SLDC-03/2023-24
"Survey, *Design, Development, Supply, Installation, Testing, Commissioning & AMC of PMU based WAMS system in OPTCL, ODISHA system."*

(A) Following modifications are made in the following clauses of the Tender Specification;

   i.   PART-I ,SECTION-V,JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3.(xxv)

   ii.   PART-I ,SECTION-V,JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3.(xxvi)

  iii.   PART-I ,SECTION-V,JOB-2 : CALCULATION OF DATA IN PDC, Clause 2.3

  iv.   PART-I ,SECTION-V,JOB-2 : DATA PROCESSING POINT, Clause 2.7 (e)

   v.   PART-I ,SECTION-V,JOB-2 : DATA PROCESSING POINT, Clause 2.7 (n)

  vi.   PART-I ,SECTION-V,JOB-2 : DATA AGGREGATION WITH TIME ALIGNMENT TO ABSOLUTE TIME, Clause 2.14.1.1

  vii.   PART-I ,SECTION-V,JOB-2 : DATA AGGREGATION WITHOUT TIME ALIGNMENT, Clause 2.14.1.3

 viii.   PART-I ,SECTION-V,JOB-2 : QUALITY CODE, Clause 3.11

  ix.   PART-I ,SECTION-V,JOB-2 : DISPLAY NOTE PAD/MEMEO, Clause 3.12

   x.   PART-I ,SECTION-V,JOB-2 : TREND TYPE, Clause 3.17

  xi.   PART-I ,SECTION-V,JOB-2 : DATA ACQUISITION, Clause 2.1(b)

  xii.   PART-I ,SECTION-V,JOB-2 : DATA ACQUISITION, Clause 2.2(e)

 xiii.   PART-I,SECTION-II , G.T.C.C, E-REVERSE AUCTION , Clause no. 30.3

The bidders who have already submitted the tender documents in the tender portal are hereby requested to revisit the revised tender documents and take necessary action.

A. Modifications in the Tender Specifications:

i. **PART-I ,SECTION-V,JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3.(xxv)**

PART-I, SECTION-V, JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3(xxv) is hereby modified as follows;

The PMU shall have internal clock, which shall be synchronized with GPS clock. Upon loss of signal from the GPS source, the PMU shall detect a loss-of-signal and generate an alarm, which will be transferred to PDC. Upon loss of signal, the PMU time facility shall revert to an internal time base. The internal clock of the GPS shall have minimum stability of 1 ppm. Within one minutes of re-acquisition of signal, the time shall return to within 0.2 micro- second of UTC. Proper correction of leap second shall be provided.

ii. **PART-I ,SECTION-V,JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3.(xxvi)**

PART-I, SECTION-V, JOB-1: PMU TECHNICAL/FUNCTIONAL REQUIREMENTS, Clause 1.3(xxvi) is hereby modified as follows;

PMU real-time output reporting latency shall be determined for each reporting rate Fs using at least 1000 consecutive messages. The reportinglatency is the maximum of these values. The latency shall be determined to an accuracy of at least 0.0001 s.

Performance Class	Maximum Measurements reporting Latency (s)
M Class	5/Fs or 7/Fs

iii. **PART-I ,SECTION-V,JOB-2 : CALCULATION OF DATA IN PDC, Clause 2.3**

PART-I, SECTION-V, JOB-2: CALCULATION OF DATA IN PDC, Clause 2.3 is hereby modified as;

PDC can be able to calculate Active, Reactive Power, Sequence component, Power factorfrom PMU row data, For Active & Reactive Power calculation, PDC can be able to calculate independently whether PMU can send voltage channel or not in one PMU ID. Auto selection/manual selection of PMU channel for P, Q calculation of feeder can be possible in PDC, same can be transmitted in output stream of PDC. Calculated Data of PDC can be further updated in UI, Analytics & all modules of systems.

iv. **PART-I ,SECTION-V,JOB-2 : DATA PROCESSING POINT, Clause 2.7 (e)**

PART-I, SECTION-V, JOB-2: DATA PROCESSING POINT, Clause 2.7 (e) is hereby modified as;

The PDC shall provide a reporting rate conversion function. The data reporting rate conversion function shall include both down-conversion and optionally up-conversion functions. Reporting rate conversion should be user-configurable toaccommodate the compatibility needs of all the devices and applications in the synchrophasor system, as well as all the applications that might be using the datafrom the PDC.

v.   PART-I ,SECTION-V,JOB-2 : DATA PROCESSING POINT, Clause 2.7 (n)

PART-I, SECTION-V, JOB-2: DATA PROCESSING POINT, Clause 2.7 (n) is hereby modified as;

PDC / Synchrophasor system shall be able to generate alarm based on the limit violation.

vi.   PART-I ,SECTION-V,JOB-2 : DATA AGGREGATION WITH TIME ALIGNMENT TO ABSOLUTE TIME, Clause 2.14.1.1

PART-I, SECTION-V, JOB-2: DATA AGGREGATION WITH TIME ALIGNMENT TO ABSOLUTE TIME, Clause 2.14.1.1is desirable but not mandatory.

vii.   PART-I ,SECTION-V,JOB-2 DATA AGGREGATION WITHOUT TIME ALIGNMENT, Clause 2.14.1.3

PART-I, SECTION-V, JOB-2: DATA AGGREGATION WITHOUT TIME ALIGNMENT, Clause 2.14.1.3 is desirable but not mandatory.

viii.   PART-I ,SECTION-V,JOB-2 : QUALITY CODE, Clause 3.11

PART-I, SECTION-V, JOB-2: QUALITY CODE, Clause 3.11 is hereby modified as follows;

All displays and reports shall have a data quality indicator associated with each data field as available in the Data source. The quality indicator shall reflect the condition of the data on the display. When more than one condition applies to the data, thesymbol for the highest priority condition shall be displayed. The following are the data quality codes that have been defined

Limit Exceed	Limit Violated
Questionable/In valid	When the data is not valid
Manual Entry	Values entered Manually
Not in service	Point is temporarily removed from service
Alarm Limit flags	Which Alarm limit is exceeded
Suspect data	Data is "suspect" quality by probable reason
Uninitialized	Data has not been initialized even once
Good	Data is available with "Good" quality

ix.   PART-I ,SECTION-V,JOB-2 : DISPLAY NOTE PAD/MEMEO, Clause 3.12

PART-I, SECTION-V, JOB-2: DISPLAY NOTE PAD/MEMEO, Clause 3.12 is desirable but not mandatory.

x.   PART-I ,SECTION-V,JOB-2 : TREND TYPE, Clause 3.17

PART-I, SECTION-V, JOB-2: TREND TYPE, Clause 3.17 is modified as follows;

At least following trend types shall be supported

- Two dimensional trend with Multi level axis with different scale limits
- Three dimensional trend (desirable but not mandatory).

xi.   PART-I ,SECTION-V,JOB-2 : DATA ACQUISITION, Clause 2.1(b)

PART-I, SECTION-V, JOB-2: DATA ACQUISITION, Clause 2.1(b) is modified as follows,

The PDCs shall conform to **IEEE C37.118 latest** standard streaming protocol for both the phasor data inputs and the combined data output stream.

xii.   PART-I ,SECTION-V,JOB-2 CONFIGURATION CHARACTERISTICS, Clause 2.2(e)

PART-I ,SECTION-V,JOB-2 : CONFIGURATION CHARACTERISTICS, Clause 2.2(e) is modified as follows,

The PDC shall determine if the configuration has changed, by comparing the newlyreceived configuration with the previously stored configuration. If the configurationhas changed, the user should take appropriate action based on user defined rulesto reconfigure its outputs and communicate the change to all affected output destinations and applications,

xiii.   Part-I, Section-II, G.T.C.C, Clause no. 30.3

Part-I, Section-II, G.T.C.C, Clause no. 30.3 is modified as follows

E-REVERSE AUCTION PROCEDURE SHALL BE RESORTED TO AS FOLLOWS

Table 5 E-Reverse Auction

STRATEGY FOR E-REVERSE AUCTION	
1	Bidders are required to go through the guide lines given below and submit their acceptance to the same.
2	e-Reverse Auction (RA) will be conducted in e-tender portal of OPTCL on specified date and time, while bidders shall quote from their own offices/places of their choice. Internetconnectivity shall be ensured by the respective agencies/bidders themselves.
3	KEONICS shall arrange for demonstration/ training (if not trained earlier) of bidder'snominated person(s), to explain all the rules related to e-Reverse Auction/ Business Rule document to be adopted.

4	The strategy to be used for reverse auction shall be "DYNAMIC TEMPLATE BIDDING"
Procedure for electronic Reverse Auctioning (e-RA):	
5	a. The e-RA shall be conducted on www.tenderwizard.com/OPTCL only. b. Bidder has to submit letter towards agreement to the Process related Terms & Conditionsfor e-Reverse Auction, as per (Reverse Auction Process Compliance Form at Annexure- XVIII). In non-receipt of the same, vendors will not be allowed to participate in e-RA. c. e-RA shall be carried out after opening of Price bids and completion of Price bid evaluation, which will be intimated only to the techno-commercially qualified bidders by OPTCL as perprocedure given below. d. d. OPTCL reserves the right to conduct e-RA and it is obligatory on part of bidder(s) invitedto participate in e-RA process once they have responded to the techno-commercial bid.
6	Prior intimation/ Notice for RA invitation will be given to techno-commercially qualified bidders regarding the date & time of opening of the e-RA. The start bid price (SBP) for e-Reverse Auction of each bidder under a particular package shall be the L1 evaluated price for the subject package including Taxes & Duties for the totalscope for subject Package. Taking the above discovered L1 price as the upper limit e-RA willbe conducted to determine the lowest possible price. Reverse Auction will be conducted amongst first 50% of the technically qualified bidders arranged in order of prices from lowest to highest, as L1, L2, L3--- Ln, and L1 price Will be discovered. Minimum of 3 bidders shall be eligible for e RA. (E.g. If 4 bidders are financially evaluated then the L1, L2 and L3 bidders shall be eligible for e-RA). Number of bidders eligible for participating in RA would be rounded off to next higher integer value if number of technically qualified bidders is odd (e.g., if 7 bids are technically qualified, then RA will be conducted amongst L1 to L4). However, in case only two bidders are found to be responsive, e-RA would be carried out with both the parties without any elimination. However, OPTCL reserves the right to invite the evaluated L1 bidder for negotiation without conducting the e-RA. In case of price submitted by any bidder is found to be abnormal, OPTCL reserves the right to reject the bid of the bidder(s). Rank of bidders would be displayed as per the total cost to OPTCL, i.e. including Taxes andDuties payable by OPTCL as per the provisions of the biding document & after e-RA processis over.

7	Names of bidders/ vendors shall not be disclosed during the e-RA process. Names ofbidders/ vendors shall be anonymously masked in the e-RA process.

   i. In case of RA, start/ reference price and step value of decrement shall be indicated to thebidders at the start of the auction. Any participating bidder can bid one or multiple step decrement lower than the prevailing lowest bid at that time. The Bidder shall be able to view Bid Start Price, Bid Decrement Value, Prevailing Lowest Bid value, last Bid Placed by him and time left for bidding.

   ii. The step value of decrement in a package to be offered by bidder (the minimum amount of reduction in the total bid price including all taxes & duties during auction), shall be kept at 0.15% of L1 bidder's final evaluated price (or) at approved amount as decided by OPTCL.

   iii. Bidders can only quote any value lower than their previous quoted price. However, at nostage, increase in Price will be permissible.

   iv. At any point during Reverse Auction, bidding Price field (Total price) shall remain enabled for the bidders. The total reverse auction period shall be unlimited and the initial auction period (1st slot) will be of thirty (30) minutes with provision of auto extension by (10)ten minutes from the schedule/ extended closing time. If any fresh lower bid is received in last ten (10) minutes of auction period or extended auction period, the reverse auction processshall get extended automatically for another ten(10) minutes. In case, there is no bid received during schedule/extended slot, Auction shall get closed automatically without further extension.

   v. However, bidders are advised not to wait till the last minute or last few seconds to enter their bid during the period of e-reverse auction to avoid complication related with internet connectivity, network problem, system crash down, power failure etc.

8	i. After conclusion of e-Reverse Auction i.e. (Closing Price in Reverse Auction will be taken as offered price by the L1 bidder), decrease in price of individual head of the template shall be considered proportionately on all individual line items of the respective head of the price schedule of the successful L1 bidder.

   ii. Any bid received at the tender wizard server end subsequent to closure of the e-RA shall be summarily rejected and shall not be considered as a valid bid under whatsoever circumstances. For this purpose, tender wizard server log shall prevail.

   iii. The bidder shall not involve himself or any of his representatives in price manipulation of any kind directly or indirectly by communicating with other bidders.

   iv. During Reverse Auction, If no bid is received within the specified time, OPTCL, at its discretion, may decide to close the reverse auction process/ proceed with conventional mode of tendering [Evaluation of Part-II (price bid) submitted by bidders earlier].

9	Consequent upon completion of e-Reverse Auction, OPTCL's decision on award of contractshall be final and binding on the bidders.
	OPTCL shall be at liberty to call the L1 bidder for further process/ negotiation and also at liberty to cancel the e-reverse auction process/ re-tender at any time, without assigning any reason thereof. OPTCL can decide to reschedule or cancel any reverse auction: the bidders shall be informed accordingly.
	OPTCL/ Service Provider shall not have any liability to bidders for any interruption or delayin access to the e-Tender site/ Reverse Auction link irrespective of the cause.

(B)   Further, Page No. 75 of the Tender document mentioning Annexure-II: ABSTRACT OF GTCC STANDS DELETED for typological error.

SD/-