

高壓電纜局部放電在線監測系統

**ONLINE PARTIAL DISCHARGE MONITORING
SYSTEM FOR HIGH-VOLTAGE CABLES**

招標編號 Tender Ref. PLD-CS160/26/99

補充通知一 Supplementary Notice No.1 (12-Aug-2026)

1. Query1:

In specification CEM indicates project is 3 years contract. Does this mean all the units have to be supplied and installed in 3 years' time? Could CEM clarify below? Does this mean all supplies have to be done in 2 months or should the project plan be submitted in 2 months?

Reply:

The schedule should include the system and the first batch of equipment, which duration should be less than 2 months. For the others, the delivery schedule should also be less than two months after placed the order .

2. Query2:

Does the inductive power supply have to be provided for all PDMS units on both joints and terminations?

Reply:

It should depend on the design and equipment provided by Tenderer.

3. Query3:

Are there any specs for the FO cable to be provided?

Reply:

The O.F. cables should be 36 cores single mode.

4. Query4:

Does the Back End system have to be a server only a full rack cabinet is required?

Reply:

The back end system should be installed via V.M. in CEM

5. Query5:

Does below row in BoQ mean that there are 8 substations that we will need to install data acquisition equipment that will communicate with CEM local rack there (called as SDH Rack or OTN Rack)? Or do they want us to install a rack cabinet there ourselves?

2.4	To supply and setup the data acquisition equipment at CEM HV substation or building - mobile data card with 3 years cost - OF cables	un	8
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Reply:

These data acquisition equipment should communicate with CEM's equipment in substation.

Tenderer could use the rack cabinet(600*600*1200mm) of existing DTS equipment if compatible.

6. Query6:

Could they clarify if below terminations have FO or all of them should be connected to local data acquisition unit via FO and this FO should be laid by us? How many of them have FO in case some of them has?

2.3	For HV Termination - 3 PD sensors - w/ necessary acquisition and transmission equipment - all necessary accessories and connections - add/modify the newly installed equipment in PDMS	un	30
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Reply:

There is no existing O.F. cables at termination. Tenderer needs to supply and install.

7. Query7:

Could they clarify then unit of below row? Do they want price for 25 units or for 25 years?

3.2	Mobile data service for each acquisition and transmission equipment	un/yr	25
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Reply:

Please quote the price for every unit per year.

8. Query8:

Could they clarify what does below mean? Does PDM system panel mean a local rack that should be installed with a data acquisition unit or only a data acquisition unit? Should this rack or data acquisition unit then to be connected to local CEM rack (SDH Rack or OTN rack)? Does SDH Rack or OTN rack mean local CEM rack?

6.6.9 The PDMS system should connect to the destination appointed by CEM Engineer. **The PDMS system panel shall connect to SDH Rack or OTN Rack located at communication/control room by CAT6 ethernet cables and PDMS system panel has to equip layer 2 switch/router with port at least 100Mb interface with full duplex mode.**

Reply:

Yes.

9. Query9:

CEM mentions that the alarms signals shall be provided by SMS and WeCOM, will CEM provide the gateways for these?

Reply:

APIs can be provided to support Tenderer 's integration requirements. The feasibility and scope will depend on the Tenderer 's final design.

10. Query10:

CEM mentions they need a web based interface. Do they have any cloud restrictions?

Reply:

The web servers are deployed internally in CEM network, for that application, CEM doesn't have cloud-based deployment.

11. Query11:

Kindly confirm if fixed IP sim cards are needed or not?

Reply:

It should depend on the design and equipment provided by Tenderer.

12. Query12:

感應式電源 -这块是否可以改成有线式安裝方式，其中传感器固定在接电线上，传感器磁芯材料为镍芯或者硅钢。这种方式不受负载电流限制 可以实时采集实时上传。

Reply:

不可以。現場沒有可用的外接市電。

13. Query13:

PD 傳感器 -常规电缆局放监测传感器频带3Mhz-----100Mhz是否可以。

Reply:

不可以。

14. Query14:

我们常规软件数据通讯协议为：MOUDBUS TCP 、 或者61850，是否能符合客户端数据传输协议要求。

Reply:

主站服務器和站端設備溝通使用TCP/IP 協議也可以。

15. Query15:

Our preliminary assessment indicates that the 3-year timeframe is considerably lengthy. To facilitate our resource allocation and work planning, could CEM please clarify: What is the overall implementation plan for this project? Will the Works be executed in phases/batches, or on a continuous uninterrupted basis? If possible, please provide an indicative schedule.

Reply:

The schedule should include the system and the first batch of equipment, which duration should be less than 2 months. For the others, the delivery schedule should also be less than two months after placed the order. The three-year contract facilitates us to place orders directly for additional new equipment within the contract period if future equipment additions are required.

16. Query16:

Will CEM accept registered electrical workers holding valid qualifications issued in Mainland China? If not, could CEM assist our engineers/electricians in completing the relevant registration procedures in Macau to comply with the above requirement?

Reply:

It is accepted if the qualification is equivalent. But the workers should have the approved work permit to work in Macau.

17. Query17:

Have the host platforms (GIS/SCADA etc.) previously had any data integration experience with cable partial discharge monitoring systems? If no such prior integration exists, would the Contractor be required to develop the corresponding interface modules or functions on the host platform side to achieve the system integration?

Reply:

There is no prior case of data interfacing with the cable partial discharge monitoring system up to now. PDMS should be ready for integration to SCADA and GIS.