



ADDENDUM-I
Tender No. 1070C17022 for Load Shedding Controller with Plant Management System for Electrical Network at ONGC
Mangalore Petrochemicals Ltd (OMPL) - An SEZ Unit



Addendum-I to tender document is as follows:

Sl.	Bidders Query	OMPL Replies/Clarifications/Amendment/Corrigendum
1	<p>Clause no 6. Page 6 of 60 Our projects involved high end SCADA feature and Load shedding systems (fast load shedding/IEC61850) in Oil and Gas, refinery, petrochemical industry and same is not implemented in NTPC power plants. Request OMPL to remove or not to consider NTPC power plant reference as criteria.</p>	<p>Bidder shall have experience of carrying out Similar jobs as specified in the clause in any of the sector mentioned and need not be in all the sectors.</p>
2	<p>Page 18 of 60 The new load shedding server and RTU/Controller should be redundant .please confirm.</p>	<p>RTU/Controller shall be redundant in nature. However, Server need not be redundant, but minimum RAID1 architecture shall be provided to provide data mirroring.</p>
3	<p>Page 18 of 60 If the existing SCADA system having suitable software available, bidder can use the facility by expanding the IO tags, adding Load shedding controllers, IOs and switches for implementation for load shedding system. Please confirm.</p>	<p>Existing facility can be used upto the relay network level only as sepcified in the tender document</p>
4	<p>Page 18 of 60 Need details of existing relays Port (Ethernet of FO) and Required relay files (tested) to be given by OMPL</p>	<p>All ABB relays as mentioned in the tender document are having FO port & all siemens relay are having Ethernet port. Required relay files shall be made available at site after award of order</p>
5	<p>Page 18 of 60 Kindly give the distances of substation. CPP to other location distances to consider the Ethernet switches /LIU in panel for the same.</p>	<p>There are 2 runs of 8 fibre Multi Mode FO cable existing between CPP & other sub-station. Each cable has 6 fibres spare available which can be utilized to provide redundant path for various SS connectivity in Star network fashion. Inside all Sub-station, all relays shall be connected in Ring fashion to avoid any downtime due to single point failure. Distance from CPP(SS-01) to various other SS are as detailed below: To SS-01A - 100mtrs To SS-02 - 0.6km To SS-03 - 0.8km To SS-04/05 - 1km To SS-06 - 1.25km To SS-08 - 1.25km</p>
6	<p>Clause no 4.2 Page 19 of 60 We shall be using hardwire Digital outputs If the existing relays not having control function block and DO channel. It's not only configuration change, we need to change the relays incase if the DO channel not ordered along with relays.</p>	<p>It shall be noted that the existing relays are having spare DO channels already available & necessary control function blocks can also be configured as per the requirement. However, it shall be totally upto the bidder to hardwire or use the existing facility to provide required operation of the system in a reliable & efficient manner without compromising on the system to provide load shedding as per the requirement</p>
7	<p>Clause No. 4.19 Scope of work We have considered load shedding application upto 6.6kV boards</p>	<p>Noted</p>

	with 20 priorities. However grouping of LS feeders all possible for change the priority using dynamic priority table.	
8	Clause No.2.1 Scope of work We assume that total 07no of location participating in load shedding i.e. Ss01, Ss01A, Ss02, Ss03, Ss04/05, Ss06, and Ss08, Ss07 and Ss09 are not considered for load shedding. Or its part of S/s02 and S/s08. Please confirm.	Only SS-01A, 01, 02, 03, 04/05, 06, 08 shall be considered for the required system as specified in the tender document. SS-07 & SS-09 are further downstream SS of SS-02 & SS-08 respectively & need not be considered at this stage.
9	Clause No. 4.26 Scope of work We assume that existing GPS having additional SNTP port for time synchronization and all the relays IP address are in the same subnet mask,OMPL to confirm,	The provided system shall be synchronized with the GPS available in the CPP Control room where the new system shall be mounted. Additional SNTP port shall be made available during the execution of the job by successful bidder. IP address of all the relays should be checked & configured as required to establish the connectivity & desired operation
10	Clause No. 4.35 Scope of work We shall be considering redundant power supply in 11switthes either 110V DC. Please confirm dual power sources available at switchboards.	Dual power supply (110V DC) is already available in all Switchgear panels & can be suitably tapped to be utilized for the switches
11	By default we have considered 3 days training at site, any detailed training shall be given at factory same will be additional scope. And we have not considered any loose spares separately other than 20% wired spares.	Noted.
12	Any civil work, storage, cable tray/ trench is excluded from the scope.	Noted.
13	Clause no 6 Scope of Work Provision of DC power supply should be made available by OMPL for CMRs and RTU. Please confirm.	Redundant DC Power Supply shall be provided at single point. Necessary internal routing as per the requirement shall be done by the successful bidder
14	Clause no. 6.1 Instruction to Bidders (ITB) to be revised as : Bidder shall be a manufacturer or Authorized integrator/solution partner of Electrical Control System / Power management system / Sub-Station Automation System. All jobs pertaining to the design & engineering of the system shall be carried out in-house and no part of the same shall be sublet to third party by the bidder at any point of time. Bidder shall provide necessary documentary evidence for in-house design & engineering. Please confirm.	As per tender specifications
15	Clause no. 6.2 ITB to be revised as: The bidder or it's OEM shall have engineered, designed, assembled, performed factory acceptance testing, supplied, installed, site testing, commissioning of Electrical Control System/Power management system/Sub-Station Automation System including functionalities like Load Shedding, Integration with MIS/DCS on OPC Protocol. Above system should have minimum 02 Nos. I/O logic controllers / RTUs, 3000 Nos. (Hardwired & Soft) I/Os and completed at least one year of satisfactory operation as on the date of issue of enquiry. The above job should have been carried out in any public/private sector crude oil refineries/petrochemical plants or NTPC power plants in India or abroad. Please confirm.	As per tender specifications

	**Vendor shall submit document evidence like PO Copies, Performance Certificates for the above to qualify.	
16	Clause no. 6.3 ITB As the scope of work includes integration of various makes of relays to a common network, Bidder shall be a reputed manufacturer or Authorized Dealer of microprocessor based Numerical relays so that the expertise in design & development of numerical relays is available in house. Please confirm.	As per tender specifications
17	Clause no. 6.1 ITB Bidder should have executed one order as per the technical criteria mentioned above in the previous 7 years period as on the bid due date of value not less than Rs. 59.10 Lakhs. Please confirm.	As per tender terms
18	Clause No. 2.4 of ITB Payment should be released within 30 days from the date of invoice. Please confirm.	Payment shall be released within 15 days of the submission of invoice duly certified by engineer-In-charge.
19	Bid due date is 27-Jun-2017 upto 14:00 Hrs (IST)	Bid due date has been extended till 04-Jul-2017 upto 14:00 Hrs (IST)

All other terms & conditions, stipulations, specifications etc. of tender document issued earlier shall remain unaltered. This forms an integral part of bidding document. Bidders are requested to take cognizance of the same and submit their bids accordingly. Bidders are requested to submit the copy of this document duly signed & stamped along with the bid (in the techno-commercial part) as the token of acknowledgement & acceptance of the same.

Sign & Stamp of Bidder