

**Energy Management System (EMS) for Supervisory Control And Data Acquisition (SCADA)****from TAS PowerTek, W-61, Ambad MIDC, Nashik-422010, Maharashtra State, India.**

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TAS PowerTek System Features, Questionnaire for Customer / Potential User Feedback. **Kindly fill-in below & provide details.**

<b>Sr. No.</b>	<b>System Feature</b>	<b>Customer Requirements</b>	<b>Customer and / or TAS PowerTek Remarks</b>
1	Application Location:	Office / Industry / Remote Location / Any Other	Please specify.
2	Application Process Area (Nature of Process)	Sub-Station / Call Center / Steel / Chemical / Cement / Fertilizer etc. Plant	Please specify.
3	Primary Objectives	Get AC Voltages, Currents, P.F., Power, Energy etc. Parameters	TAS Provides Comprehensive Measurements, Monitoring, Limits Checking, Alarming, Data-Logging, Data Reporting, Archiving, & Billing Reports Solutions.
4	Additional Objective	Provide Maximum-Demand Alarms at 3 Levels.	Makes the system important to avoid penalties
5	Based on TAS Load Manager Units, LM-56	TAS LM-56 is Accepted based on it's features & Specs	TAS prefers doing SCADA based on LM-56 Units
6	Supporting Software for PC as a "Master"	Use of PC as "Master" is OK.	Use of PLC as a "Master" only under specific case.
7	No. of Locations to be independantly monitored in a Group	How Many Load Managers, LM-56 Units required for monitoring?	These will be typically between 10 to 60, but User to specify.
8	The farthest distance between LM-56 Unit in the Field & The PC as a "Master"	Specify Maximum Cable Running length in Meters	Maximum practical distance is 2000 Meters, with or without Repeater(s).
9	If Wired Communication between PC and LM-56 Units is NOT feasible, Is "wireless" solution acceptable?	In case of Wired Communication, it is RS-485 based MOD-Bus. In case of "Wireless", it is GSM (for SMS Mode) / GPRS (for File Transfer Mode) of Mobile Technology.	TAS has expertise in BOTH, but Wired Solution, where feasible, is a Lower-Cost Option.
10	"Master" PC in the vicinity of the LM-56 Units or in Remote Location?	In case of "Master" PC in a far-away Remote Location, then, the PC must have an Internet Access and the GPRS Mode is mandatory. TAS-Cloud can then provide almost a Global Access!	TAS can provide the needed solutions.
11	After freezing basic functional requirements, then, go for other details as below:	Customer Priorities & Concerns can be high-lighted here	TAS is much willing to listen and understand your specific needs.
12	Electrical System: Mains (Power-Grid) or Captive Power-Plant (In-house D-G Set(s) or Solar PV Inverters (Stand-alone or Grid-Tied)	Please specify.	In case of Solar PV Inverters, Customer to provide the Application Manuals, specifically the Access Protocol.

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13	Electrical System is: Three-Phase, Four-Wire, Nominal Phase-to-Neutral Voltage is 240 Vac, and the range can be 80 to 300 Vac	Specify if it is OK, as is the case in India.	Please specify if the System is to be operated on AC or DC and at what Nominal Rated Voltage, along with the Operating Voltage Range.
14	Electrical Supply System Line Frequency of Operation: 50 +/- 3 Hz, 60 +/- 3 Hz, 400 Hz (Special Case)	Please specify.	No problem for nominal 50 Hz or 60 Hz Systems. Pl. discuss with TAS for any others.
15	Availability of Back-up Power Source for System	Do you have Zero-Transfer-Time-UPS or a D-G Set?	
16	Range of Supply Current in Amps to be measured and monitored by EACH Load Manager, LM-56 Unit, indicating Minimum, Nominal and Maximum Values.	Are the Supply Current and / or the P. F. Correction Capacitor Banks Total Current Measurement CTs already installed in the Field or to be selected and Installed by TAS?	TAS has the necessary experience & expertise in this area too. User to provide field requirements.
17	Is the System Configuration purely with TAS Manufactured Products or there will be Compatible Products from others?	TAS Specilization is in Electrical Systems Measurements, Monitoring, Controlling etc. Non-Electrical Parameters such as Flow, Volume, Totalizers, Temperature etc. would need one-to-one discussions with TAS.	For others' Units, it is essential to have the respective User / Applications Manuals, along with the necessary "Protocol" information. TAS looks to the opportunities for "Integrated" Approach.
18	Human-Machine-Interface at "Master" Controller as PC, Dynamic Data Update Rate: Typical 1 Minute, but much depends on System Configuration and Project Budgets.	1 Minute Interval updated Dynamic Data is acceptable in almost all cases, but ready to exploer anything faster.	Customer specifies the most practical requirements.
19	Hard-Copy Outputs of Reports / Billings etc. on to a Color-Graphics Printer Required?	Paper Sizes of A3 and A4 are commonly utilized. Specify if different.	TAS can provide compatible Color-Graphics Laser Printer.
20	System Feature not included anywhere in the above?	Please specify.	Discuss with TAS.
21	Video Presentation of TAS Installed System	Possible at TAS PowerTek, Nasik.	Face-to-Face discussions always help!