

### Charification - 3

#### Design, Supply, Installation, Integration, Testing and Commissioning of Substation Automation System (SAS) for Existing Grid Substations in Kathmandu Valley

SL. No.	Chapter	Page	Existing clause description	Query	NEA Response
1	Volume II, Chapter-9	9 - 4	The CCS will connect to several substations via IEC 101/IEC 104, and as work as a master control center for there substations, so the connected substations can be unattended substations.	Please confirm the breakup of IEC 101 and IEC 104 substations	Please Comply with specifications
2	Volume II, Chapter-9	9 - 4	Figure 2.1 CCS system structure schemes	We understand that CCS system structure scheme is shown in the following figure 2.1 is only suggestive not firm as it can be different for difefrent vendor. Kindy confirm our understanding	Confirm but minimum requirements should be met.
3	Volume II, Chapter-9	9 - 5	Figure 2.2 theStructure of SCADA CCS System	Is Substation Mini SCADA is same as MCC or CCS ? In place of RTUs there should be SAS Gateways on IEC 101/104?  Kindly clarifiy	Confirm
4	Volume II, Chapter-9	9 - 9	CI 1.3.1 Data Quality	We understand that NEA is only looking for SCADA system and SCADA system will not have the state estimated value.  Kindly update the List of Quality flag of Analog values	NEA requirement is SCADA/EMS functionality  During DDE



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5	Volume II, Chapter-9	-	General Observation	Kindly share the SLDs and IO list of Substations	SLDs are attached in our previous clarification and for IO please refer SAS specifications
6	Volume II, Chapter-9	-	General Observation	In Various clauses, there is reference to EMS ,PAS,DTS,CA,DSA etc , We understand that it is only SCADA system and other asked applications are not relevant  Kindl ammend the requirements	Refer Above
7	Volume II, Chapter-9	-	General Observation	Many a places some terms/words seems to be propoteritry , require further clarifications on excat requirement (For example : Clause 2.2.2 dbiol/dbiop,2.2.3 dbserach , 2.6 PDR function ,4.7 Xmanager etc)  Kindly Clarify	Please follow the specifications



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8	Volume II, Chapter-9	9 - 35	CI 2.5: Historical Fundtions	RDBMS database is referred as ORACLE at many places , we understand we can propose other RDMBS such as SQL or PostgreSQL as long as requirement is met  Kindly confirm our understanding	Please follow the specifications and can be finalized during DDE.
9	Volume II, Chapter-9	9 - 41	Table 7.3: EMS model capacity in CCS	1. We understand that EMS is not requirement. It is only SCADA. Kindly confirm our understanding. 2. Kindly specify the difference between <i>Analog Input, Analog Value, Analog</i> 3. Kindly specify the difference between Status Input, Status Value, Status	1. NEA requirement is SCADA/EMS functionality. 2. Take them as same meaning. 3. Take them as same meaning.
10	Volume II, Chapter-9	-	General Observation	We understand that UPS and Battery backup for MCC shall be in scope of NEA. Kindly confirm our understanding  If not, knidly share the specifications and BOQ for same	It is in scope of work



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11	Volume II, Chapter-10	-	General Observation	Maintenance & Support is asking for many application or subsystems (e.g. EMS, DSA, NMS etc) which are not even part of delivery & seems to be irrelevant of project specification  Kindly clarify/ amend the requirements	Please follow the specs
12	Volume III	23	Part 13, A 2: Virtual Projection System for MCC	Detailed specifications, no of Screens, Size of screens etc is not given for Virtual Projection System. Please provide the same	Refer specs of VPS.

