ORISSA ELECTRICITY REGULATORY COMMISSION
BIDYUT NIYAMAK BHAWAN
UNIT-VIII, BHUBANESWAR - 751 012
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Present: Shri B. K. Das, Chairperson
Shri K.C. Badu, Member
Shri B.K. Misra, Member

Case No.19/2011

M/s SMC Power Generation Ltd. …. Petitioner
- Vrs. -
M/s OPTCL. ….. Respondent

In the matter of: **Application under Clause 1.8 of OGC Regulation, 2006 to extend time for installation of PLCC/SCADA equipments upto the nearest SCADA point.**

For the Petitioner: Shri Sidhharth Kumar Panda for the petitioner

For the Respondent: Shri A.C. Patra, DGM(Tel)& Shri A. K. Patnaik, DM(Tel), OPTCL.

ORDER

Hearing date: 26.04.2011 **Order date: 05.05.2011**

The present application has been filed by M/s M/s SMC Power Generation Ltd. under Clause 1.8 of OGC Regulation, 2006 to extend time for installation of PLCC/SCADA equipments upto the nearest SCADA point.

2. Sri Panda, on behalf of the petitioner, M/s. SMC Power Generation Ltd. submitted that the firm presently operates a CGP of total capacity 33 MW having connectivity at 33 KV level to Budhipadar grid s/s of OPTCL through WESCO distribution system. The petitioner has also been permitted by OPTCL to avail upto a maximum of 10 MW of power at 132 KV through LILO arrangement of 132 KV Burla-Sambalpur-Rajgangpur single circuit line alongwith a switching station. M/s. SMC Power Generation Ltd. has submitted that the power requirement of its industry shall be met

from its CGP generation, leaving around 5-10 MW of power surplus to be injected to the State Grid. The feasibility of the proposal of injection of 10 MW of power to the State Grid has been examined by OPTCL and system study conducted in this regard was found to be in order. The petitioner submitted that, it has been mentioned in the concluding remark of the system study report that although network is adequate and voltages at different grid s/s are within permissible limit but export of 10 MW of SMC during high hydro condition may restrict the full evacuation of power generated from Burla Power House. Hence, SMC may evacuate 10 MW of power to Rajgangpur.

3. As regards to provision of PLCC/SCADA, according to the provisions in Orissa Grid Code (OGC) Regulation, 2006 and also as per existing practice being adopted is that all users connected to 132 KV and above voltage level are to establish RTU's at their end from where data communication is to be made available upto the multiplexer at the nearest SCADA Interface Point normally 220/132 KV s/s of OPTCL. Thereafter, OPTCL transfers the real time data to SLDC. In this case, the respondent has requested the petitioner during Jan, 2007 for procurement of necessary equipments for provision of PLCC/SCADA. Further it appears that the petitioner after a lapse of more than three years has requested the respondent to energise the LILO line & switching station without insisting for putting the provision of PLCC. In its reply, the respondent has intimated the petitioner that since there is no physical connectivity in the SMC-Rourkela-Tarkera line at present, PLCC/SCADA in between M/s. SMC Power Ltd. to Budhipadar via Rajgangpur may be established, for which the respondent has submitted the revised bill of materials to the petitioner. SCADA interface point at Budhipadar grid substation of OPTCL is available and presently in service for transmitting real-time data from Budhipadar SCADA multiplexer to SLDC.

4. The petitioner submitted that, its firm shall normally utilize the bulk power generated by its CGP for its own use and limit the export upto 10 MW, for which load limiters/relays at the switching station shall be provided.

5. Accordingly, submitting the above facts, the petitioner M/s. SMC Power Generation Ltd. has filed its petition on 10th Feb, 2011 with the prayer to exempt the petitioner

providing PLCC/SCADA equipments under Regulation 1.8 of OGC on the following ground:

(i) In Case No.92/2009 relating to M/s. ACC Ltd., Baragarh, the Commission has passed orders holding that provision of PLCC/SCADA is not required for any generator (including CGP) upto 25 MW.

(ii) M/s. SMC Power Generation Ltd. is willing to provide load limiters/relays at the LILO switching station to limit the maximum injection of power to the grid to 10 MW at the time of load thrown off in the plant.

6. Sri Patra, DGM, Telecom, OPTCL on behalf of respondent stated that OPTCL could not issue clearance, as it is a mandatory requirement under the OGC Regulations, 2006 and also the petitioner, has not yet taken any action for procurement of required materials for installation of PLCC/SCADA. As per Regulation 4.13(d) of the Orissa Grid Code Regulations, 2006 -

> *"All Agencies connected to or planning to connect to STS would ensure providing of RTU and other communication equipment, as specified by STU, for sending real-time data to nearest SCADA interface point of the transmission licensee at least before date of commercial operation of the generating stations or sub-station/line being connected to STS."*

7. Sri Patra, further stated that the petitioner should have completed the procurement of all materials for installation of PLCC/SCADA till now as it is a mandatory requirement under OGC Regulations 2006 and more than 3 years have already been over during the meantime. Further as per the Procedure on Communication and Data Transmission approved by the Commission vide order dt.20.09.2010 in Case No.2./2009 and 106/2010, all the users/requesters and generators including CGP's etc. are required to provide necessary RTU at their premises as a part of communication system requirement. The relevant clause 5 and 6 of the said approved procedure is reproduced below:

> ***"5) Communication System requirement***
>
> *All users/requesters and Generators including CGPs etc. who are connected to or planning to connect to STS shall provide necessary RTU at its premises and communication channels/facilities upto the nearest 220/132 KV s/s of STU(SCADA Interface Point) as per the recommendation of the STU. However, the users/requesters/Generators*

including CGPs. May use the equipments other than those stipulated by the STU provided that they (user/requesters/generators including CGPs) furnish an undertaking to the effect that they (user/requesters/generators including CGPs) shall be wholly responsible for fast and reliable voice/data communication to SLDC in the format annexed in the Schedule-1 to this procedure.

However, in case the users/requester elects not to provide the aforesaid communication channels/facility himself in order to avoid the difficulty of provision of communication facility in the requisite mode, the STU may provide the same at the cost of the requester/user by getting reimbursed at the beginning of the initial installation and running O&M cost of such communication facility from the user/requester. On that case the undertaking under Schedule-1 shall not be required. However, such users/requesters shall be responsible solely for he availability of required voice/data output at their RTU.

6) Applicability of the Procedure

This procedure for voice/data communication shall be applicable to all users/requesters/generators including CGPs, intending to connect/already connected with the State Transmission System as detailed under -

(i) All generators/including CGPs and all users intend to connect/already connected with the State Transmission System (STS) at a voltage level of 132 KV shall provide their real time data to SLDC through SCADA.

(ii) All generators/including CGPs with a generation capacity of above 25 MW connected with STS at a voltage level of 33 KV shall provide their real time drawl dta up to the nearest SCADA Interface Point.

(iii) All users/requesters connected with STS at 33 KV voltage level or above and having contract demand of 10 MVA or above shall provide voice communication system with SLDC."

8. Heard the parties at length.

9. After hearing the parties and perusal of the case records the Commission observes and directs as under:-

(i) The submission made by the petitioner in Para 5 above as regards to connectivity for injection of power from generator including CGP's are addressed in the OGC Regulation, 2006. As per the Regulation 4.15(1) of the OGC-2006, the connectivity of a consumer/CGP/Generator at 33 KV or at any higher voltage level should be decided mutually on a techno-commercial analysis and system study. In case of the connectivity at 33

kV, any generator including CGP up to 25 MW for dedicated line (tie line) and up to 15 MW in case on non-dedicated (non-tie) line, shall be allowed.

(ii) The existing provision of the OGC Regulation 10.3(1) read with its Appendix-C-5 says that power stations and generating units of generator including CGP upto 25 MW for dedicated line (tie line) and up to 15 MW for non dedicated (non-tie) line (being connected at 33 KV) are not required to be operationally monitored by the Transmission Licensee for their output and other responses. In the instant case, the petitioner being a CGP of total capacity 33 MW and connected at 132 KV is required to provide PLCC/SCADA for operational monitoring.

(iii) Also as per Regulations 4.13(d) of OGC Regulations, 2006 all agencies connected or planning to connect to STS are required to provide RTU and other communication equipments for sending real time data to the nearest SCADA interface point of transmission licensee before the commercial operation of the generating stations or sub-station/line connected to STS. The petitioner, M/s. SMC Generation Ltd. has apparently not taken any steps, even after a lapse of more than 3 years for procurement of PLCC/SCADA equipments, which is the mandatory requirement as per OGC Regulations, for all agencies connected to or planning to connect to STS. Hence, the Commission cannot allow any exemption from such provision.

(iv) The Commission, as regards to technical standards for connectivity to the grid and establishment of voice and data communication to SLDC and to achieve the objectives of the OGC Regulations, 2006 has approved a procedure on communication and data transmission, which has been published in the Extra Ordinary Orissa Gazette dt.24.12.2010 for information of all concerned. It has been provided therein that all the users/requesters and generators including CGP's etc, connected to or planning to connect to STS are required to provide RTU at their premises and communication channels/feasibility upto the nearest 220/132 KV s/s

of STU. In the instant case, only one hub of PLCC connectivity is required for transmitting User's RTU data to the SCADA multiplexer of OPTCL for further transmission to SLDC. Hence, as the petitioner has proposed for connectivity with STU (changing over from the present connectivity at 33 KV of DISCOM), it is required to provide reliable, efficient & data communication system for effective supervision /data exchange/control.

10. In view of the above, the Commission is not inclined to allow exemption to the petitioner from complying the provision of PLCC and hence rejects the prayer of the petitioner and directs the petitioner to take immediate steps for installation of PLCC/SCADA equipments at the earliest. The Commission desires that the User's data and speech connectivity should be in place within 6 months of energisation of 132 KV system. The petitioner, within 2 months of issue of this order shall submit a report to OPTCL with intimation to the Commission the status of procurement and installation of RTU and communication system by the User. Any delay /deviation from this time schedule of 6 months as aforementioned shall attract the penal provisions of the Electricity Act, 2003.

11. Accordingly the case is disposed of.

(B.K. Misra)	**(K.C. Badu)**	**(B. K. Das)**
Member	**Member**	**Chairperson**