



**NARAYANA ENGINEERING COLLEGE :: GUDUR**  
(Approved by AICTE, Affiliated to JNTUA & An ISO 9001-2008 Certified Organization)  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**Report for industrial visit**

***Power Grid corporation of India(PGCIL) ,***

**Jatlakonduru 765KV Polling Station**

**Introduction**

Power Grid Corporation of India Ltd. (POWERGRID), the Central Transmission Utility of the country, is one of the largest electrical power transmission utilities in the world. It constructs, owns and operates Extra High Voltage (EHV) transmission network in India and carries out real time supervision and monitoring of the grid, on round the clock basis. It is working towards achieving its mission of “Establishment and Operation of Regional and National Power Grids to facilitate transfer of power within and across the regions with reliability, security and economy, on sound commercial principles”. Construction and improvements in infrastructure projects including power projects is not purely a technical issue but has wider socio economic implications in the overall development of the economy. Acquisition of lands from people necessitated by improvements in power sector such as construction of sub- stations may result in the involuntary displacement of the people from areas where they live and work. Such a change may lead to economic and cultural disruption to the affected people. Thus to address these issues a Rehabilitation Action Plan (RAP) is essential for the project affected persons to develop and implement programmes which are meaningful and workable such that the affected persons will not become worse off economically than before.

POWERGRID in recognition of this has incorporated the preparation of the Rehabilitation Action Plan (RAP) and its implementation an integral part of the Social Assessment process described in its Environmental and Social Policy & Procedures (ESPP). The need for the RAP had been identified by the initial assessment and the analysis of expected social impacts which require appropriate mitigative measures for all PAPs who, on the basis of an established cut-off-date, will be losing land or other assets or livelihood, as a result of project implementation.

In this context POWERGRID had invited and awarded M/s Centre for Management and Social Research (CMSR), Hyderabad for undertaking a verification and socio-economic survey to obtain accurate information on the Socio-economic profile of PAPs/PAFs to prepare the Rehabilitation Action Plan (RAP) for the proposed 765/400 kV Nellore Pooling Station under its Common System associated with Long Term Open Access (LTOA) in Andhra Pradesh. The present report deals with the baseline socio-economic condition of area and people who will be

affected by land acquisition for the construction of 765/400 kV Nellore Pooling Station in Nellore district of Andhra Pradesh State and the plan for their rehabilitation.

**Transmission Lines:-**

- (i) LILO of both circuits of SEPL/MEPL – Nellore 400 kV D/c (quad) line at Nellore Pooling station – 24 ckm;
- (ii) (ii) Nellore Pooling Station – Kurnool 765 kV D/c line – 606 ckm;
- (iii) (iii) Kurnool – Raichur 2nd 765 kV S/c line (first line covered under Krishnapatnam UMPP) – 123 ckm.

**Substation**

- (i) Establishment of new 2X1500 MVA, 765/400 kV substation at Nellore;
- (ii) (ii) Extension of Kurnool 765/400 kV substation;
- (iii) (iii) Extension of Raichur 765/400 kV substation

**Area- 765/400 kV Pooling Station at Nellore**

The proposed pooling station shall be a new pooling station located at Sri Potti Sriramulu Nellore district in Andhra Pradesh to be constructed and owned by POWERGRID.

The name of Nellore District has been changed as Sri Potti Sriramulu Nellore District on 4th June 2008. The District is the Southern most Coastal District of Andhra Pradesh lies between 13-30' and 15-6' of the Northern latitude and 70-5' and 80-15' of the Eastern Longitude and extending over an area of 13076 Sq.Kms, accounting for 4.75% of the total area of the state.

It is bounded on the north by Prakasam District on the East by Bay of Bengal on the South by Chittoor District and Chengalpattu District of Tamilanadu and on the West by Veligonda Hills which separate it from Kadapa District.

**ACCOMPANYING STAFF MEMBERS: for IV-EEE students visited date :22/7/2017**

1. Mr. T. Y. Saravanan	Assistant Professor	EEE
2. Mr. B. Pavan Babu	Assistant Professor	EEE
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