



COMPLETION CERTIFICATE FOR CONSULTANCY WORK

This is to certify that M/S SATCON was appointed to supply basic engineering, & detail design and drawings for the "**Electrical power supply and distribution system of Uranium Ore Mining and Processing Plant at Tummalapalle, A.P, Package no. UCTL-5**" under P.O no. 5257-4500276101 dated 26.3.2009.


The job included the following work in brief:

ELECTRICAL

1. Design basis report,
2. Electrical layout plan and elevation of 5 nos. indoor 6.6kV substations.
3. Cable tray and trench layout of 5 nos. indoor 6.6kV substations.
4. Earthing layout, BOM and calculation of 5 nos. indoor 6.6kV substations.
5. Lighting layout, BOM and calculation of 5 nos. indoor 6.6kV substations.
6. Lightning protection layout, BOM and calculation of 5 nos. indoor 6.6kV substations.
7. Cable sizing calculations.
8. Outdoor cable tray layout plan, sections and BOM of cable tray and supports.
9. Outdoor lighting layout plan, sections, BOM and cable sizing.
10. 6.6kV overhead line routing layout plan, sections and BOM of overhead line materials.
11. Sag and tension calculations.
12. Battery and charger sizing calculations.
13. Power, control and instrument Cable estimate, schedule and interconnection diagrams.
14. Relay setting calculations and coordination charts.

This is to certify that M/S SATCON has completed the work in stipulated time and to the satisfaction of all concerned.

This certificate is being issued to them as per their requirement.


Biswajit Bhattacharyya
Sr. Manager (Engineering)
(System Business)

Date : 27.01.2011

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