



Ref: ER/SYS/SC/SATC/001
Date: OCTOBER 10, 2006

To whom it may concern

This is to certify that M/S SATCON has been appointed to supply basic engineering, detail design and drawings for the electrical portion of '3 nos 132/33kV new substations (switchyard consisting of 5 nos. 132kV bays, 2 nos. 31.5/50MVA trafo and 11 nos. 33kV bays) and expansion of 3 nos. existing 132kV substations (by 2 nos. 132kV bays) of WBSEB' under P.O no. 5200003607 Amend-1 dated 15.3.06 (package-11) and 5200003608 Amend-1 dated 15.3.06 (package-12).

The job includes the following work in brief :


ELECTRICAL

1. Design basis report,
2. 132/33/11kV Protection and metering single line diagrams,
3. Electrical equipment layout plan & elevation drawings,
4. Cable trench and tray layout drawings,
5. Erection key diagrams, bill of materials for clamps, connectors, insulators, ACSR conductors, AL. tube bus and hardware,
6. Grounding layout drawings, BOM and calculations,
7. Lighting layout, SLD, BOM and calculations,
8. Lightning protection layout and BOM,
9. Outdoor cable trench layout and sections,
10. Control schematics and interlocking diagrams,
11. Short circuit calculations, sag & tension calculations, rigid bus span calculations
12. Cable schedule and interconnection diagrams.

This is an ongoing job and about 50% have been completed till date by M/S SATCON within the scheduled time frame and their performance is satisfactory.

This certificate has been issued at the request of M/S SATCON and will not have implication of any sort on the terms and conditions of the P.O.s mentioned above.

Yours truly,


Subrata Chatterjee,
Sr. Manager-Projects,
Power Distribution Systems