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POWER GRID CORPORATION OF INDIA LIMITED

(A Govt. of India Enterprise)

89, Hemkunt Chambers

Nehru Place, New Delhi- 110 019

Ref: POWERGRID/N-36-00

North Eastern Region Load Despatch and Communication Scheme Notification of Scheme-under section 29 of the Electricity (Supply) Act, 1948 as amended.

WHEREAS, in exercise of its power under section 28 of the Electricity (Supply) Act, 1948 as amended, the scheme relating to the establishment construction, operation and maintenance of the North Eastern Region Load Despatch and Communication Scheme has been prepared by Power Grid Corporation of India Ltd., New Delhi formerly known as National Power Transmission Corporation Ltd., having its registered office at Hemkunt Chambers, 89 Nehru Place, New Delhi 110 019, a Generating Company set up by the Government of India under the aforesaid Act (hereinafter referred to as POWERGRID), with a view to achieve a stable transmission system in the region through computerized data processing and Real time system control.

AND WHEREAS, under section 29(2) of the said Act, the POWERGRID before finalisation of the scheme is required to cause such scheme to be published in the Official Gazette of the State(s) concerned and in such local newspapers as the POWERGRID may consider necessary so that any licensee or other interested persons may make representations if necessary on the scheme.

NOW THEREFORE, the POWERGRID hereby publishes the scheme in terms of Sec 29(2) of the aforesaid Act as follows :

**Title :**

The scheme shall be called "North Eastern Region Load Despatch & Communication Scheme".

**Salient Features :**

The North Eastern Region comprises of the constituent power systems of the seven States of Assam, Meghalaya, Tripura, Nagaland, Manipur, Mizoram and Arunachal Pradesh as well as the following central sector organizations viz National Hydro Electric Power Corporation (NHEPC), Power Grid Corporation of India Ltd (POWERGRID) and North-Eastern Electric Power Corporation (NEEPCO). Presently there is an Interim Regional Load Despatch Centre (IRLDC) at Shillong from where the control of the regional grid is done through voice communication. No on-line data acquisition facilities however exist. Except for Assam State Electricity Board (ASEB) none of the other SEBs' or Electricity departments have a load despatch centre. Due to lack of real time data and good communication, real time control cannot be effected.

Many abnormal operating conditions, emergencies and grid disturbances go unnoticed in absence of computerised systems. It is therefore necessary to augment the Load Despatch facilities by providing modern computerised Load Despatch & Communication facilities.

The proposed system control facilities comprises of a two tier hierarchical network of Load Despatch Centre with Regional System Coordination and Control Centre (RSCC), at Shillong forming hierarchy-I and State Load Despatch Centres (SLDCs) forming hierarchy-II. The SLDCs for the State System would be located at Guwahati for Assam, at Shillong for Meghalaya, at Agartala for Tripura, at Aizawl for Mizoram, at Imphal for Manipur, at Kohima for Nagaland and at Itanagar for Arunachal Pradesh. However the SLDCs at Aizawl, Imphal, Kohima and Itanagar shall consist of only On Line Demand Display Unit. The Central Stations/Substations shall be controlled by the Central Project Control Centres (CPCCs) at Shillong and Balipara. The SLDCs and CPCCs shall be controlled by the RSCC at Shillong. Each SLDC/CPCC shall have under its control a cluster of RTUs through which data shall be acquired.

The project also envisages the setting up of a well knit communication network to support the hierarchical system of load despatch centres. Because of the limited capabilities of the Power Line Carrier Communication (PLCC) systems for supporting high speed data transfer, a dedicated telecommunication system comprising of different communication media is proposed to be set up for real time control of the power system.

The Communication link between RTU and the next hierarchical level would generally be PLCC. However in some cases the communication system is so configured that multi-channel digital microwave and Optic Fibre links cover many RTU stations. The communication link between RSCC and SLDC/CPCC would comprise of either digital microwave or Optic Fibre links. An integrated communication system along these lines is proposed to be evolved and be implemented under this project.

The functions and facilities required for the RSCC and SLDCs are covered under this project.

**Location :**

The proposed system involves construction of RSCC at Shillong, State Load Despatch Centres at Guwahati, Shillong, Agartala, Aizawl, Imphal, Kohima and Itanagar with supporting communication facilities. CPCCs shall be located at Shillong and Balipara.

**Benefits :**

The Unified Load Despatch & Communication Scheme will result in fewer system disturbances, faster restoration following disturbances, better frequency and voltage control, less equipment damage due to abnormal conditions and a more dependable power supply relieving consumers of the cost of outages and standby facilities. In the absence of the Unified Scheme the supply condition of North Eastern Region shall necessarily worsen with the addition of many new generating stations and associated transmission lines.

**Date of Commencement :**

The work on the Project would commence during 1993-94 and the benefits from the Project would start becoming available from 1998-99 onwards.

**Estimated Cost :**

The estimated cost of the proposed scheme is Rs. 146.46 Crores based on II Quarter, 1993 price level. This includes an IDC of Rs. 11.82 Crores.

Notice is hereby given under section 29(2) of the said Act that any licensee or other persons interested may make representations in respect of the above scheme within two months from the date of publication of this notification after which no further representation will be considered.

By the order and on behalf of

Power Grid Corporation of India Ltd.

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