B.7 Application of a monitoring methodology and description of the monitoring plan:

B.7.1 Data and parameters monitored:

Data / Parameter:	$EG_{export\ y}$
Data unit:	GWh
Description:	Electricity exported to the grid by the project during the year y
Source of data to be used:	Joint Meter reading (Form-B)
Value of data	21.74
Description of measurement methods and procedures to be applied:	Electric power exported to the grid will be measured by both the main and check meters in presence of BPCL and KPTCL representative as specified in the PPA and records maintained. There are total two main meters and two check meters installed at Pilakala substation. This is because power evacuation is by double circuit transmission lines connected between power house and Pilakala substation. However, each line is required to have one main and one check meter.
QA/QC procedures to be applied:	Meters will be calibrated every calendar quarter as per Power purchase agreement.
Any comment:	All the data monitored under the monitoring plan will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

Data / Parameter:	$EG_{import,y}$
Data unit:	GWh
Description:	Electricity import to the project activity during the year y
Source of data to be used:	Joint Meter reading (Form-B)
Value of data	0
Description of measurement methods and procedures to be applied:	Electric power import from the grid will be measured by both the main and check meters in presence of BPCL and KPTCL representative as specified in the PPA and records maintained. The same meter that measures electricity export to the grid ($EG_{export\ y}$). also measures electricity import ($EG_{import\ ,y}$) There are total two main meters and two check meters in total. This is because power evacuation is by two lines and each line is required to have one main and one check meter.
QA/QC procedures to be applied:	Meters will be calibrated every calendar quarter as per Power Purchase Agreement (PPA).
Any comment:	All the data monitored under the monitoring plan will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later.

Data / Parameter:	EG_y
Data unit:	GWh
Description:	Net electricity supplied to the grid by the project
Source of data to be used:	Joint Meter reading (Form-B)
Value of data	21.74
Description of measurement methods and procedures to be applied:	Net electricity will be determined by the State electricity utility by subtracting the values of $EG_{export\ y}$ and $EG_{import,y);}$ and will be sourced from the Form –B EG_y=Electricity exported to the grid by the project during the year y ($EG_{export\ y)}$ - Electricity import to the project activity during the year y ($EG_{import,y);}$
QA/QC procedures to be applied:	Sales record can be used to cross check
Any comment:	All the data monitored under the monitoring plan will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

Data / Parameter:	$F_{i,y}$
Data unit:	*Tonnes/kilo liters*
Description:	Quantity of fossil fuel type *i* combusted in the project plant during year *y*
Source of data to be used:	Plant records
Value of data	0 (assumed value for ex-ante calculation of emission reductions)
Description of measurement methods and procedures to be applied:	The total number of operating hours of DG set will be recorded in the log book maintained at plant. For the corresponding period diesel consumed is arrived by noting the fall in the diesel level of the storage tank. Such level measurements is either by dip stick method or by glass gauge provided on the storage tank.
QA/QC procedures to be applied:	The data recorded will be cross checked against the fuel purchase receipts.
Any comment:	All the data monitored under the monitoring plan will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

B.7.2 Description of the monitoring plan:

The company Bhoruka Power Corporation Ltd. is managed by a Board of Directors. The company is managed professionally with a full time Managing Director. He is assisted by Sr.Vice President (Technical), who is in charge of all technical aspects, and a General Manager (Finance), Sr.Vice President (Technical), responsible for all projects, has under him a Vice President (O&M), who is responsible for

operation & maintenance of the running plants. He inturn is assisted by Plant Manager for each of the Hydro Plants. The Plant Manager is assisted by engineers/Asst. Managers for each activity of operation & maintenance in the respective plant.
The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data of the CDM activity rests with Sr.Vice President (Technical),. For monitoring activities of GHG and preparation of necessary reports, for review by the management, the responsibilities rest with concerned plant manager.

The responsibility of storage and archiving of information in good condition also lies with Plant Manager. Sr.Vice President (Technical)will undertake periodic verification and onsite inspections to ensure the quality of the data collected by the team and initiate steps in case of any abnormal conditions.

The readings from energy meters (ie, Electricity supplied to the grid (EG_{y}),electricity export by the project $EG_{export, y}$)& Grid electricity import to the project activity ($EG_{import, y}$) will be taken on an daily basis by the shift supervisor and recorded in logbooks. This daily data will be signed off at the end of every subsequent day by the shift in charge/ power plant manager.

Tri vector meters will be calibrated and sealed as per thePPA, every quarter. Hence, high quality is ensured for all the above parameters. Generated energy is fed in to the Grid by two lines. Hence for measurement purpose there are total two main meters and two check meters for two lines.

The Power Purchase Agreement signed by the Project Participants and the KPTCL provides procedures for monitoring the energy fed to the grid, emergency preparedness, calibration of monitoring equipment, company's operation and maintenance responsibilities etc. These parameters are regularly reviewed. Hence, no separate procedures for QA/QC are provided in this monitoring plan.

The project has necessary provisions for emergency preparedness so that any unforeseen events such as fire etc. could be averted. The provisions include fire fighting systems, standby features for critical items etc.
All the data monitored under the monitoring plan will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later. The monitored data will be presented to the verification agency or DOE to whom verification of emission reductions is assigned.

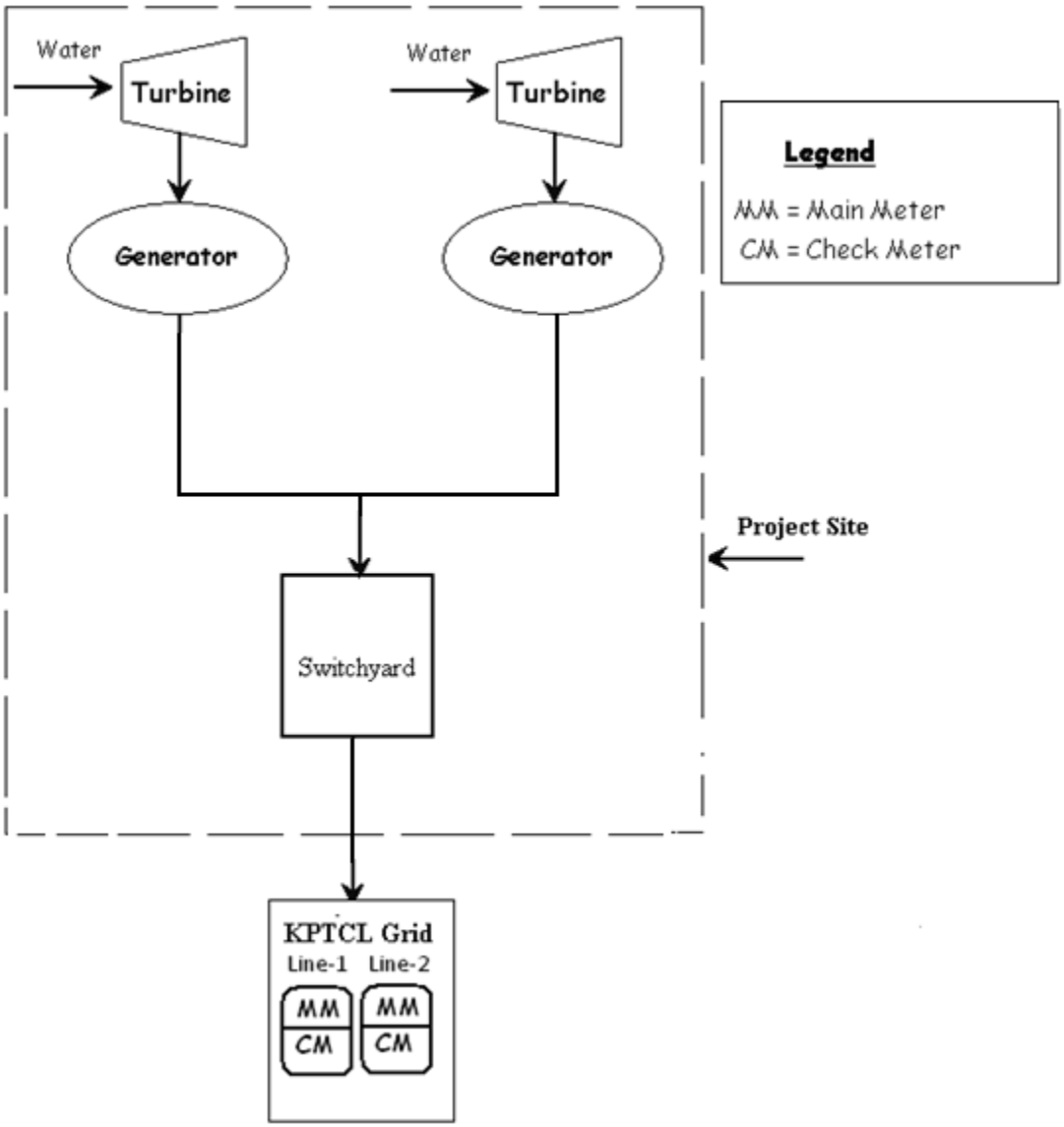
The Company, as corporate policy, delegated and upgraded the responsibilities of various functional heads. These revisions are updated in the ISO procedures.

Annex-4

MONITORING INFORMATION

All the parameters mentioned in the monitoring plan will be maintained at the plant. The entire process of monitoring will be made available in the required format during the verification process and for subsequent useful purposes.

The calibration of monitoring equipment will be maintained as per the requirement of KPTCL and the same will be done regularly.
The Location of several meters installed is indicated in the following sketch.



The power will be evacuated from the project through 33 kV double circuit lines to KPTCL's Pilakala sub station. Each line is connected to two energy meters, one Main and Check meter, all with 0.2 class accuracy at KPTCL's Pilakala sub station. These energy meters will be tested and calibrated utilizing a standard meter.. The testing of meters shall be jointly conducted by authorized representatives of both the parties and the results will be applicable and binding on both the parties. The energy meters shall not be interfered with, tested or checked except in the presence of representatives of company and KPTCL.

If and when errors, are seen as beyond permissible limits following procedure is adapted for correction on energy recorded by grid meters

If during the quarterly test, the main meter is found to be with in the permissible limit of error and the corresponding check meter is beyond the permissible limits, then billing will be as per the main meter as usual. The check meter shall, however, be calibrated immediately.

If the main meter is found to be beyond permissible limit of error, but the corresponding check meter is found to be with in permissible limits of error, then the billing for the month up to the date and time of such test shall be as per the check meter. Their will be a revision in the bills for the period from the previous calibration test up to the current test based on the readings of the check meter. The main meter shall be calibrated immediately and billing for the period thereafter till the next monthly meter reading shall be as per the calibrated main meter.

If both main meters and the corresponding check meters are found to be beyond the permissible limits of error, both the meters shall be immediately calibrated and the correction applied to the reading registered by the main meter to arrive at the correct reading of energy for the period from the last month's meter reading up to the time of testing. . Billing for the period thereafter till next monthly meter reading shall be as per the calibrated meter.

However, for applying monthly bill to KPTCL the meter readings will be taken every month by KPTCL officials in presence of company representatives and readings will be jointly certified.