



MONITORING REPORT FORM (CDM-MR) *
Version 01 - in effect as of: 28/09/2010

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* as contained within the document entitled "Guidelines for completing the monitoring report form (CDM-MR)" (EB 54 meeting report, annex 34).

**MONITORING REPORT**

Version 01, 14/02/2012

1.725 MW Mini Hydel Scheme on Nagavali River, Andhra Pradesh, India**Reference number: 1566****First Monitoring Report; 03/06/2009 to 23/12/2011 (first and last days included)****SECTION A. General description of the project activity****A.1. Brief description of the project activity: >>**

>>

The project activity is a hydro project of capacity 1.725 MW constructed on Nagavali River at the downstream of Thotapalli Reservoir in Vizianagaram District of Andhra Pradesh, India. The main purpose of the project activity is generation of electricity using hydro potential available in the river and exporting the generated power to Andhra Pradesh Transmission Corporation Limited (APTRANSCO), a state owned power utility company.

The project activity comprises a conveyance channel, control structure, flushing conduit, desilting tank, power channel, forebay, penstock, power house, and tail race channel. The power from the project activity will be evacuated through 33/11 kV Naguru Sub-station. In this process there are no greenhouse gas emissions or burning of any fossil fuels. Thus electricity is generated through sustainable means without causing any negative effect on the environment.

The project activity was commissioned on 17/07/2008 with state grid and registered as CDM project on 03/06/2009.

The present monitoring period is chosen from 03/06/2009 to 23/12/2011. The net electricity supplied to the State grid by the project activity is 11.71284 GWh and the net emission reductions are of 9,997 tCO₂e for the present monitoring period after deducting the emissions due to delay in calibration of energy meters.

A.2. Project Participants

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Name of the party involved(*) (host) indicates a host party)	Private and/or public entity (ies) project participants	Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (Host)	Private Entity: Sardar Power Limited, Hyderabad.	No.

A.3. Location of the project activity:

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The location of project activity is:

Village : Naguru
Taluk : Garugubilli
District : Vizianagaram
State : Andhra Pradesh
Country : India.

The geographical co-ordinates of the location are 83° 31' 32" E (longitude) and 18° 44' 20" N (latitude).

Physical location of the project is marked in the maps below:



Map 1: Location of Andhra Pradesh in India



Map 2: Location of Vizianagaram District in Andhra Pradesh



Map 3 : Location of Project Activity in Vizianagaram District

A.4. Technical description of the project

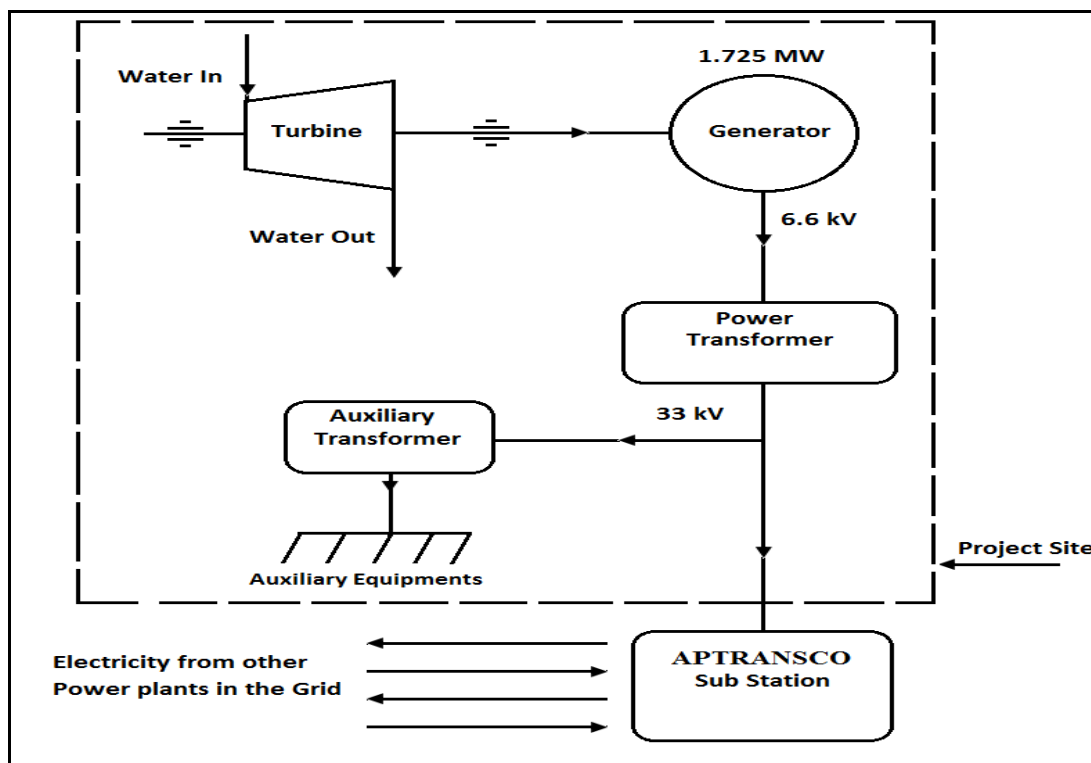
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The project activity would utilise potential energy available in flowing water for power generation. The process would involve converting the kinetic energy available in the water flow into mechanical energy using hydro turbines and then to electrical energy using alternators. The generated power will be transformed to match the nearest grid substation for proper interconnection and smooth evacuation of power.

The details of major equipment of the project activity are furnished below:

Equipment Specifications	
<u>Turbine:</u>	<u>Generator:</u>
Make : B Fouress Pvt. Ltd.	Make : WEG
Type : Vertical full kaplan	Model :SSA710
	Sl. No :138635
	Capacity : 1.725MW
<u>DG Set</u>	Power factor :0.8
Make : Kirloskar	Voltage : 6.6 kv
Capacity : 40 KVA	Rated speed :750 Rpm
Frequency :50 Hz	Frequency : 50 HZ
Volts : 440 kV, Power Factor : 0.8	
Tank Capacity : 230 Litres approx	

Detailed technical process diagram of the project activity is furnished below:



**A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:**

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Title : **Type I**, Renewable Energy Projects
 Reference : **AMS-I.D.** Grid connected renewable electricity generation
 Version : **Version 13**, AMS-I.D, Scope : 01, EB 36

<http://cdm.unfccc.int/Projects/DB/DNV-CUK1252576926.35/view>

A.6. Registration date of the project activity:

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03 June 2009

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

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03 June 2009 - 02 June 2019 (Fixed)

A.8. Name of responsible person(s)/entity(ies):

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Name/Entity	Project Participant (Yes/No)
Mr. Movva Shrinivas Managing Director Sardar Power Limited Telephone: +91-94419 01270 E-Mail : movvashrinivas@yahoo.co.in	Yes

SECTION B. Implementation of the project activity**B.1. Implementation status of the project activity**

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The project activity has been commissioned on 17/07/2008 and registered with CDM-EB on 03/06/2009. The project promoter has installed all monitoring equipments to monitor the parameters, which were described in the registered CDM-PDD.

The details of the project operations during this monitoring period are presented below:

Period	(Hr:MM)
	03/06/2009 to 23/12/2011
Total no. of hours	22416:00
Non-running hours	10605:32
Running hours	11810:28

No significant events occurred during this monitoring period, which may impact the applicability of the methodology.

B.2. Revision of the monitoring plan

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Not applicable

B.3. Request for deviation applied to this monitoring period

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Not applicable

B.4. Notification or request of approval of changes

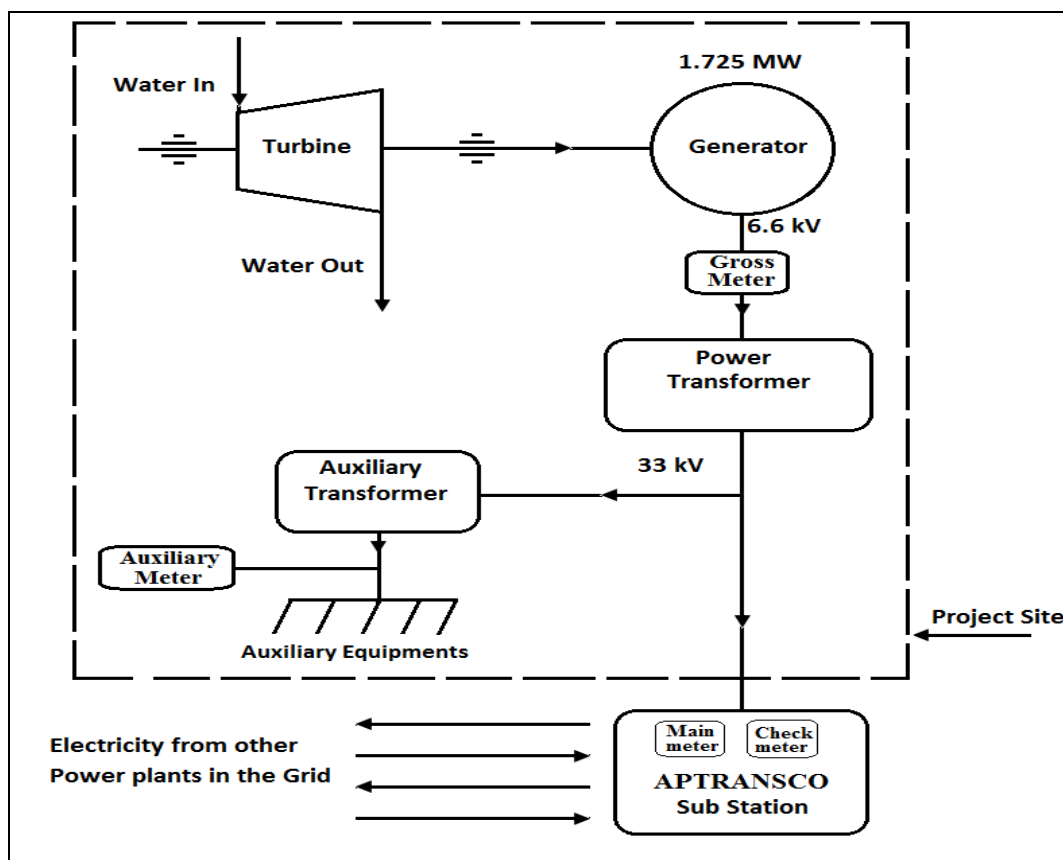
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No notification or request of approval of changes has been made for the project activity.

SECTION C. Description of the monitoring system

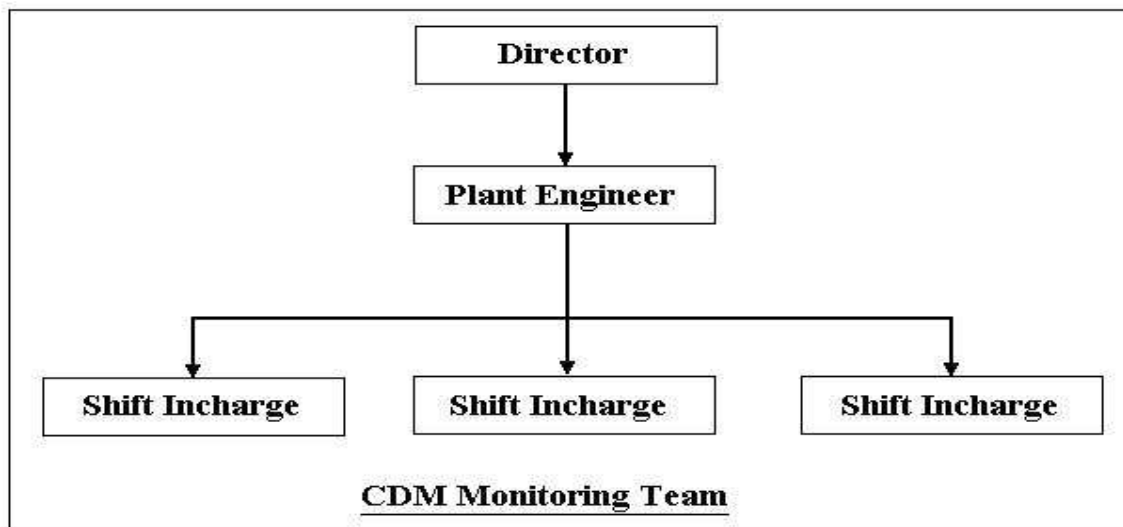
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The project had been provided the monitoring equipments which were described in the registered CDM-PDD and the line diagram for the monitoring parameters are furnished below:



CDM Monitoring Team

A CDM team has been formed in Sardar Power Limited (SPL) for monitoring and verification of all the monitoring parameters as per the guidelines formulated by the management of SPL. Qualified and trained people monitor the parameters and emission reduction calculations. SPL is the sole agency responsible for implementation and monitoring of the project activity. The monitoring organisation structure is shown below:



Roles and Responsibilities

Board of Directors

The authority and responsibility for monitoring, measuring, reporting and reviewing of the data rests with the Board of Directors. The Board have delegated the same to General Manager.

General Manager

The General Manager is the person who is responsible for GHG monitoring activities in the project activity. He has appointed experienced persons (mechanical and electrical) in various disciplines to assist him. He is responsible for review the monthly reports submitted by Plant Manager and prepare a report on operational conditions of plant and also compiling the data on electricity export to the grid system for submission to the Board of Directors.

The responsibility of storage and archiving of information in good condition also lies with the General Manager

Plant Engineer

The Plant Engineer will examine the reports generated by the Shift Incharge with respect to the monthly electricity generation, export, import and annual emission reduction calculations as per the monitoring plan. The calibration of the meters installed will be taken care by him as per the monitoring plan.

Shift Incharge

Shift Incharge is responsible for recording the total electricity generation, auxiliary consumption, electricity export, import, plant shut down times, etc. The monthly reports will be generated and submitted to the Plant Engineer for verification and emission reduction calculations.

Calibration

Main meter and Check meter are being tested and certified at least once in a year against an accepted laboratory standard meter in accordance with electricity standards. The calibration of the meters is carried out by ETDC. The meters are deemed to be working satisfactorily if the errors are within the meter specifications of 0.2s accuracy class.

**Methods of data transfer and archiving policy**

The data will be recorded by plant personnel at the project site and also the monthly export & import readings will be recoded & certified by APTRANSCO officials. The electricity generation and distribution structure will be measured using calibrated meters. Records of measurements will be used for verification of emissions reductions. Sales bills / receipts may be compared as an alternative proof of the electricity exported to the grid.

SECTION D. Data and parameters**D.1. Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors**

Data / Parameter:	EF_y
Data unit:	tCO ₂ /GWh
Description:	CO ₂ emission factor for the regional grid system
Source of data used:	CEA Published grid emission factor
Value(s) :	854.69
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Additional comment:	--

Data / Parameter:	COEF_i
Data unit:	kgCO ₂ /TJ
Description:	CO ₂ emission coefficient of fuel type i
Source of data used:	IPCC 2006 default values
Value(s) :	74000
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Project emission calculations
Additional comment:	The project activity may combust only one type of fossil fuel, i.e., diesel during the project operation to meet the emergency power requirement of the project. Hence only emission factor of diesel is provided in the parameter.

D.2. Data and parameters monitored

Data / Parameter:	EG_{Gross,y}
Data unit:	GWh
Description:	Total electricity generated by the project activity during the year y.
Measured /Calculated /Default:	On-site measurement
Source of data:	Daily generation log sheets
Value(s) of monitored parameter:	11.92902 Please see Annex-1 for monthly values
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	----
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Serial No. : 27473TM0307 Model No. : TM 7400 Accuracy class : 1.0 Calibration Frequency : Industrial Standards (once in three years)



	Date of Calibrations : 27/03/2010
Measuring/ Reading/ Recording frequency:	Recording daily.
Calculation method (if applicable):	-----
QA/QC procedures applied:	The energy generated is measured using calibrated meters and recorded by project proponent. Meter is recalibrated periodically at reputed third party lab.

Data / Parameter:	EG _{Aux,y}
Data unit:	GWh
Description:	Auxiliary electricity consumption of the project
Measured /Calculated /Default:	On-site measurement
Source of data:	Daily generation log sheets
Value(s) of monitored parameter:	0.05881 Please see Annex-1 for monthly values
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	----
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Serial No. : 6902TM0807 Model No. : TM 7400 Accuracy class : 1.0 Calibration Frequency : Industrial Standards (once in three years) Date of Calibrations : 27/03/2010
Measuring/ Reading/ Recording frequency:	Recording daily.
Calculation method (if applicable):	-----
QA/QC procedures applied:	Meters are recalibrated periodically at reputed third party lab.

Data / Parameter:	EG _y
Data unit:	GWh
Description:	Net electricity supplied to the grid by the project
Measured /Calculated /Default:	On-site measurements
Source of data:	Monthly Joint Meter Reading Reports certified by HPSEB officials
Value(s) of monitored parameter:	11.75001 Please see Annex-1 for monthly values
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculation
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Main Meter Serial No. : 07041342 & 07659670 Model No. : ER300P & A1860RALNC Make : L&T & ELSTER Accuracy class : 0.2S Calibration Frequency : Annual Date of Calibrations : 13/05/2008 & 23/12/2010
Measuring/ Reading/ Recording frequency:	Recording Monthly
Calculation method (if applicable):	-----



QA/QC procedures applied:	Meters will be calibrated as per industry standards. Sales records to the grid and other records are used to ensure consistency.
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Data / Parameter:	EG _{import,y}
Data unit:	GWh
Description:	Grid electricity import to the project activity during the year y
Measured /Calculated /Default:	On-site measurements
Source of data:	Monthly Joint Meter Readings Reports certified by HPSEB officials
Value(s) of monitored parameter:	0.03847 Please see Annex-1 for monthly values
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Main Meter Serial No. : 07041342 & 07659670 Model No. : ER300P & A1860RALNC Make : L&T & ELSTER Accuracy class : 0.2S Calibration Frequency : Annual Date of Calibrations : 13/05/2008 & 23/12/2010
Measuring/ Reading/ Recording frequency:	Recording Monthly
Calculation method (if applicable):	-----
QA/QC procedures applied:	Meters will be calibrated as per industry standards. Sales records to the grid and other records are used to ensure consistency.

Data / Parameter:	F _{i,y}
Data unit:	Tonnes/ kilo litres
Description:	Quantity of fossil fuel type <i>i</i> combusted in the project plant during year y
Measured /Calculated /Default:	On-site measurements
Source of data:	Fuel purchase receipts
Value(s) of monitored parameter:	0 (The month wise diesel consumption details are provided in Annex – 2)
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Project emission calculation
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	---
Measuring/ Reading/ Recording frequency:	Recorded monthly.
Calculation method (if applicable):	---
QA/QC procedures applied:	The data recorded can be cross checked against the fuel purchase receipts.

Table- 1: Main Meter & Check Meter Recalibration Test Details

	Serial No.	Period of usage	Date of calibration
Main Meter	07041342	03/06/2009 to 29/12/2010	13/05/2008
Check Meter	07041337		
Main Meter	07659670	29/12/2010 to 23/12/2011	23/12/2010
Check Meter	07659673		

SECTION E. Emission reductions calculation

E.1. Baseline emissions calculation

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The baseline emissions are calculated as follows:

$$BE_y = EG_y \cdot EF_y$$

Where EG_y is the net electricity exported to the grid system during the year y

EF_y is the emission factor of the grid to which the project exports electricity

As mentioned under sec.B.6.1 of registered CDM-PDD, the project has taken the baseline emission factor 854.69 tCO₂/GWh (ex-post) for estimation of baseline emissions.

E.2. Project emissions calculation

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The project activity has equipped with a diesel generator of suitable size to meet the emergency requirements of power house etc., emissions due to usage of fossil fuel (diesel) has been accounted as project emissions based and the following equation will be used for estimating project emissions as provided in the AMS I D, Version 13, EB 36.

$$PE_y = F_{i,y} * COEF_i$$

Where,

PE_y : Project emissions from combustion of fossil fuel (DG set) in the project activity during the year y

$F_{i,y}$: Quantity of fossil fuel type i combusted (DG set) during the year y

$COEF_i$: Carbon dioxide emission factor of the fuel type i

PE_y : 0 tCO₂e

The detail calculations for emissions from DG set were provided in excel sheet.

E.3. Leakage calculation

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Since, the project activity is a run-of-river hydro power projects, the leakage (L_y) are considered zero.

E.4. Emission reductions calculation / table

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Since the project emissions (PE_y) as well as the leakage (L_y) are zero, the emission reductions are equal to the baseline emissions. These are calculated based on the monitored net amount of electricity supplied to the grid, and the baseline emission factor. The latter is monitored and hence determined ex post.

$$ER_y = BE_y - PE_y - L_y$$

Where,

- ER_y - Emission reductions in the yth year
- BE_y - Baseline emissions in the yth year
- PE_y - Project emissions in the yth year.
- L_y - Leakage in the yth year.

Total baseline emissions	: 10,010 tCO ₂ e
Total project emissions (DG set)	: 0 tCO ₂ e
Leakage	: 0 tCO ₂ e
Emissions due to delay calibration	: 13 tCO ₂ e
Total emission reductions	: 9,997 tCO ₂ e

The month wise baseline emissions, project emissions and emission reductions are provided in excel sheet and also in Annex – 2.

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

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Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO ₂ e)	14,215*	9,997

As the reported period is more than one year, the annual emission reductions as indicated in the registered PDD i.e. 5,559 tCO₂e GWh is adjusted to number of days available in the monitoring period.

E.6. Remarks on difference from estimated value in the PDD

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The emission reductions occurred during the reported period are 29.7% less than the estimated in the registered PDD.

**History of the document**

Version	Date	Nature of revision
01	EB 54, Annex 34 28 May 2010	Initial adoption.
Decision Class: Regulatory Document Type: Guideline, Form Business Function: Issuance		

Annex -1Consolidated Report for Monitored Parameters during the Monitored Period

Monitoring Period	Gross Electricity Generation	Auxiliary consumption	Electricity Exported to Grid	Electricity Imported from Grid	Net Electricity Exported	Diesel Consumption
	GWh	GWh	GWh	GWh	GWh	Lit
03.06.2009 to 24.06.2009	0.141390	0.0007808	0.1381	0.0015	0.13660	0.0
24.06.2009 to 24.07.2009	0.386200	0.0026300	0.3772	0.0015	0.37570	0.0
24.07.2009 to 24.08.2009	0.316350	0.0019000	0.3114	0.0019	0.30950	0.0
24.08.2009 to 24.09.2009	0.219440	0.0012180	0.2152	0.0012	0.21400	0.0
24.09.2009 to 24.10.2009	0.000000	0.0011000	0.0000	0.0016	-0.00160	0.0
24.10.2009 to 23.11.2009	0.000780	0.0023000	0.0007	0.0032	-0.00250	0.0
23.11.2009 to 23.12.2009	0.000120	0.0026000	0.0001	0.0035	-0.00340	0.0
23.12.2009 to 23.01.2010	0.000000	0.0017000	0.0000	0.0023	-0.00230	0.0
23.01.2010 to 23.02.2010	0.000000	0.0009000	0.0000	0.0014	-0.00140	0.0
23.02.2010 to 23.03.2010	0.000120	0.0016000	0.0000	0.0021	-0.00209	0.0
23.03.2010 to 23.04.2010	0.000780	0.0012000	0.0007	0.0018	-0.00110	0.0
23.04.2010 to 23.05.2010	0.000000	0.0002080	0.0000	0.0003	-0.00030	0.0
23.05.2010 to 23.06.2010	0.164570	0.0020020	0.1608	0.0024	0.15840	0.0
23.06.2010 to 23.07.2010	0.522220	0.0020100	0.5140	0.0006	0.51340	0.0
23.07.2010 to 23.08.2010	0.560850	0.0014430	0.5539	0.0004	0.55350	0.0
23.08.2010 to 23.09.2010	0.629420	0.0026174	0.6218	0.0009	0.62090	0.0
23.09.2010 to 23.10.2010	0.908590	0.0026163	0.8954	0.0003	0.89510	0.0
23.10.2010 to 23.11.2010	1.026580	0.0027582	1.0130	0.0002	1.01280	0.0
23.11.2010 to 23.12.2010	1.158920	0.0024592	1.1437	0.0000	1.14370	0.0
23.12.2010 to 23.01.2011	0.993960	0.0026746	0.9802	0.0002	0.98001	0.0
23.01.2011 to 23.02.2011	0.347510	0.0015683	0.3424	0.0019	0.34044	0.0
23.02.2011 to 23.03.2011	0.039400	0.0004866	0.0393	0.0017	0.03760	0.0
23.03.2011 to 23.04.2011	0.000000	0.0018801	0.0000	0.0020	-0.00198	0.0
23.04.2011 to 23.05.2011	0.000000	0.0012800	0.0000	0.0014	-0.00142	0.0
23.05.2011 to 23.06.2011	0.165440	0.0008999	0.1633	0.0009	0.16245	0.0
23.06.2011 to 23.07.2011	0.746990	0.0017764	0.7352	0.0001	0.73510	0.0



23.07.2011 to 23.08.2011	0.727460	0.0028846	0.7163	0.0006	0.71568	0.0
23.08.2011 to 23.09.2011	0.869620	0.0025249	0.8562	0.0004	0.85581	0.0
23.09.2011 to 23.10.2011	0.998190	0.0029201	0.9821	0.0001	0.98202	0.0
23.10.2011 to 23.11.2011	0.449430	0.0015844	0.4431	0.0006	0.44254	0.0
23.11.2011 to 23.12.2011	0.554290	0.0018955	0.5459	0.0002	0.54568	0.0
Total	11.92862	0.05642	11.75001	0.03717	11.71284	0.0

Annex -2Consolidated Report for Emission reductions during the Monitored Period

Monitoring Period	Net Electricity Exported	Diesel Consumption	Baseline Emission Factor	Baseline Emissions	Project Emission	Leakage	Emission Reduction
	GWh	Lit	tCO ₂ / GWh	tCO ₂ e	tCO ₂ e	tCO ₂ e	tCO ₂ e
03.06.2009 to 24.06.2009	0.13660	0.0	854.69	116.75	0.00	0.00	116.75
24.06.2009 to 24.07.2009	0.37570	0.0	854.69	321.11	0.00	0.00	321.11
24.07.2009 to 24.08.2009	0.30950	0.0	854.69	264.53	0.00	0.00	264.53
24.08.2009 to 24.09.2009	0.21400	0.0	854.69	182.90	0.00	0.00	182.90
24.09.2009 to 24.10.2009	-0.00160	0.0	854.69	-1.37	0.00	0.00	-1.37
24.10.2009 to 23.11.2009	-0.00250	0.0	854.69	-2.14	0.00	0.00	-2.14
23.11.2009 to 23.12.2009	-0.00340	0.0	854.69	-2.91	0.00	0.00	-2.91
23.12.2009 to 23.01.2010	-0.00230	0.0	854.69	-1.97	0.00	0.00	-1.97
23.01.2010 to 23.02.2010	-0.00140	0.0	854.69	-1.20	0.00	0.00	-1.20
23.02.2010 to 23.03.2010	-0.00209	0.0	854.69	-1.79	0.00	0.00	-1.79
23.03.2010 to 23.04.2010	-0.00110	0.0	854.69	-0.94	0.00	0.00	-0.94
23.04.2010 to 23.05.2010	-0.00030	0.0	854.69	-0.26	0.00	0.00	-0.26
23.05.2010 to 23.06.2010	0.15840	0.0	854.69	135.38	0.00	0.00	135.38
23.06.2010 to 23.07.2010	0.51340	0.0	854.69	438.80	0.00	0.00	438.80
23.07.2010 to 23.08.2010	0.55350	0.0	854.69	473.07	0.00	0.00	473.07
23.08.2010 to 23.09.2010	0.62090	0.0	854.69	530.68	0.00	0.00	530.68
23.09.2010 to 23.10.2010	0.89510	0.0	854.69	765.03	0.00	0.00	765.03
23.10.2010 to 23.11.2010	1.01280	0.0	854.69	865.63	0.00	0.00	865.63
23.11.2010 to 23.12.2010	1.14370	0.0	854.69	977.51	0.00	0.00	977.51
23.12.2010 to 23.01.2011	0.98001	0.0	854.69	837.60	0.00	0.00	837.60
23.01.2011 to 23.02.2011	0.34044	0.0	854.69	290.97	0.00	0.00	290.97
23.02.2011 to 23.03.2011	0.03760	0.0	854.69	32.14	0.00	0.00	32.14
23.03.2011 to 23.04.2011	-0.00198	0.0	854.69	-1.69	0.00	0.00	-1.69
23.04.2011 to 23.05.2011	-0.00142	0.0	854.69	-1.21	0.00	0.00	-1.21
23.05.2011 to 23.06.2011	0.16245	0.0	854.69	138.84	0.00	0.00	138.84
23.06.2011 to 23.07.2011	0.73510	0.0	854.69	628.28	0.00	0.00	628.28



23.07.2011 to 23.08.2011	0.71568	0.0	854.69	611.68	0.00	0.00	611.68
23.08.2011 to 23.09.2011	0.85581	0.0	854.69	731.45	0.00	0.00	731.45
23.09.2011 to 23.10.2011	0.98202	0.0	854.69	839.32	0.00	0.00	839.32
23.10.2011 to 23.11.2011	0.44254	0.0	854.69	378.23	0.00	0.00	378.23
23.11.2011 to 23.12.2011	0.54568	0.0	854.69	466.39	0.00	0.00	466.39
Total	11.71284	0.0		10,010.85	0.00	0.00	10,010.85

Annex -3Emissions due to Delayed Calibration during the Monitored Period

		Main meter	
Installed meter S.Nos. during this period		7041342	
Date of Calibration test		13.05.2008	
Date of Recalibration test		-	
Period for which Meters used		03.06.2009 to 29.12.2010	
Meters calibration valid till (once in year)		12.05.2009	
Delayed calibration period		13.05.2009 to 23.12.2010	
Adjusted the Monthly Joint Energy Meter Readings for the period [Electricity adjusted due to delayed calibration test]		03.06.2009 to 29.12.2010	
		Export	Import
% of error indicated in the Recalibration test report		-	-
Permissible error as per meter specifications		0.20%	0.20%
Electricity _{Measured}	kWh	70,30,290	37683
Adjusted on account of delayed calibration	kWh	70,16,229	37759
Net electricity displaced _{Measured}	kWh	69,92,607	
Net electricity displaced _{Adjusted}	kWh	69,78,471	
Difference in Net electricity displaced	kWh	14,136	
Baseline emission factor	tCO ₂ /GWh	854.69	
Emissions - Calculated	tCO ₂ e	12.08	
Considered	tCO ₂ e	13.0	
Total emissions to be adjusted on account of delay in recalibration test	tCO₂e	13	