



**Monitoring report form
(Version 03.2)**

Monitoring report

Title of the project activity	Babanpur, Killa and Sahoke Mini Hydroelectric Projects
Reference number of the project activity	0329
Version number of the monitoring report	03
Completion date of the monitoring report	31/05/2014
Registration date of the project activity	30/04/2006
Monitoring period number and duration of this monitoring period	Monitoring period : Seventh (7 th) Duration of monitoring period: 01/11/2012 to 28/02/2014 (including both the days)
Project participant(s)	Kotla Hydro Power Private Limited EDF Trading Ltd.
Host Party(ies)	India
Sectoral scope(s) and applied methodology(ies)	Sectoral scope : 01 Methodology : AMS I.D Version 07
Estimated amount of GHG emission reductions or net anthropogenic GHG removals by sinks for this monitoring period in the registered PDD	30,594 tCO ₂
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved in this monitoring period	30,373 tCO ₂
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period up to 31 December 2012(if applicable)	2,670 tCO ₂
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period from 1 January 2013 onwards (if applicable).	27,703 tCO ₂

SECTION A. Description of project activity**A.1. Purpose and general description of project activity**

>>

Three Mini Hydroelectric Projects (MHP) aggregating to 3.75 MW at Babanpur, Killa and Sahoke on the Kotla Branch Canal, District Sangrur, Punjab, India have been set up. Mini Hydroelectric Project at Babanpur (1MW) was commissioned in July 2004, Killa (1.75MW) was commissioned in November 2005 and Sahoke (1MW) was commissioned in October 2006. The plants are operating successfully.

The purpose of the project activity is to generate electricity by utilizing water flowing through the existing canal system as a renewable energy resource to meet the ever-increasing demand of energy in the region. The development of the project activity contemplates the production of clean hydroelectric power that will contribute to reduce CO₂ emissions, which would have occurred otherwise, in absence of these projects.

1 MW (500 kW X 2) hydroelectric power plant at Babanpur, 1.75 MW (875 kW X 2) hydroelectric power plant at Killa and 1 MW (1000 kW X 1) hydroelectric power plant at Sahoke of this project activity generate electricity and sell it to the State utility i.e. Punjab State Electricity Board.

These three plants are of low head, canal drop based mini hydroelectric projects. The projects are canal based renewable hydroelectric generating plants, which includes forebay, intake, power house, draft tube, turbine, and tailrace. The component plants do not involve any type of displacement, rehabilitation or relocation.

The projects are generating electricity successfully by converting the potential of kinetic energy of the canal water and the renewable electricity produced is fed into the Punjab State Electricity Board Grid thereby replacing the equivalent amount of electricity produced from thermal stations and thus reducing green house gas emission.

Equipment Details:

The MHPs were completed with major equipment of following details:

SN	MHP	Equipment	Qty	Capacity	Manufacturer
1	Babanpur	Turbine & its accessories	2	500 Kw	HPP Energy India Private Limited, New Delhi
		Induction Generator	2	500 Kw	Kirloskar Electricals Co. Ltd.
2	Killa	Turbine & its accessories	2	875 Kw	Boving Fouress Limited, Bangalore
		Synchronous Generator	2	875 Kw	Marelli Motori(Italy)
3	Sahoke	Turbine & its accessories	1	1000 Kw	Boving Fouress Limited, Bangalore
		Synchronous Generator	1	1000 Kw	Marelli Motori(Italy)

The Projects were implemented and operated as planned and described in the Project Design Document (PDD).

During the present monitoring period i.e. 01/11/2012 to 28/02/2014, the net power exported to the grid by the three plants is 32.24 Million kWh, which corresponds to 30,373 tCO₂ emission reductions in the monitoring period.

A.2. Location of project activity

>> MHP Babanpur : The project is located at Kotla Branch Canal

Latitude : 30.4141° N, Longitude : 75.8780° E
 Town : Malerkotla
 District : Sangrur
 State : Punjab
 Country : India

MHP Killa : The project is located at Kotla Branch Canal

Latitude : 30.3269° N, Longitude : 75.7250° E
 Town : Malerkotla
 District : Sangrur
 State : Punjab
 Country : India

MHP Sahoke : The project is located at Kotla Branch Canal

Latitude : 30.1877° N, Longitude : 75.5775° E
 Town : Malerkotla
 District : Sangrur
 State : Punjab
 Country : India

A.3. Parties and project participant(s)

Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (host)	Private entity: Kotla Hydro Power Private Limited	No
United Kingdom of Great Britain and Northern Ireland	Private Entity : EDF Trading Ltd.	No

A.4. Reference of applied methodology

>>
 Type I : Renewal Energy Projects
 Category : I.D. "Grid Connected Renewable Electricity Generation"
 Version : 07

A.5. Crediting period of project activity

>>
 Crediting period for this project activity is 01/07/2004 to 30/06/2014 (Fixed).

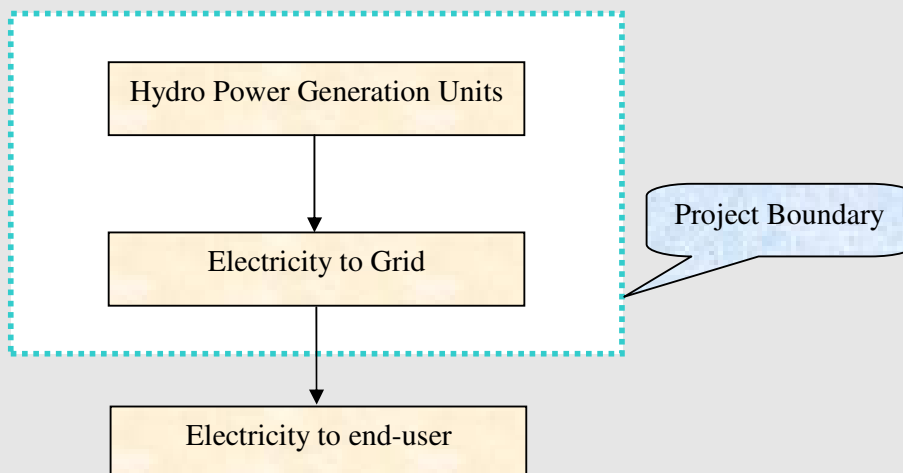
SECTION B. Implementation of project activity

B.1. Description of implemented registered project activity

>>
 The projects activities were commissioned on dates as mentioned below while it was registered with CDM EB on 30/04/2006.

SN	Name of the Project	Date of Commissioning
1	Babanpur	July 2004
2	Killa	November 2005
3	Sahoke	October 2006

The project proponent has installed all monitoring equipment to monitor the parameters which were described in the registered CDM PDD.



The project activity is in continuous operation since the date of commissioning. No special events or change of equipments have taken place during the current monitoring period.

No events occurred during the current monitoring period which may have affected the applicability of the methodology.

B.2. Post registration changes

B.2.1. Temporary deviations from registered monitoring plan or applied methodology

>>

Not Applicable

B.2.2. Corrections

>>

Not Applicable

B.2.3. Permanent changes from registered monitoring plan or applied methodology

>>

Not Applicable

B.2.4. Changes to project design of registered project activity

>>

Not Applicable

B.2.5. Changes to start date of crediting period

>>

Not Applicable

B.2.6. Types of changes specific to afforestation or reforestation project activity

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Not Applicable

SECTION C. Description of monitoring system

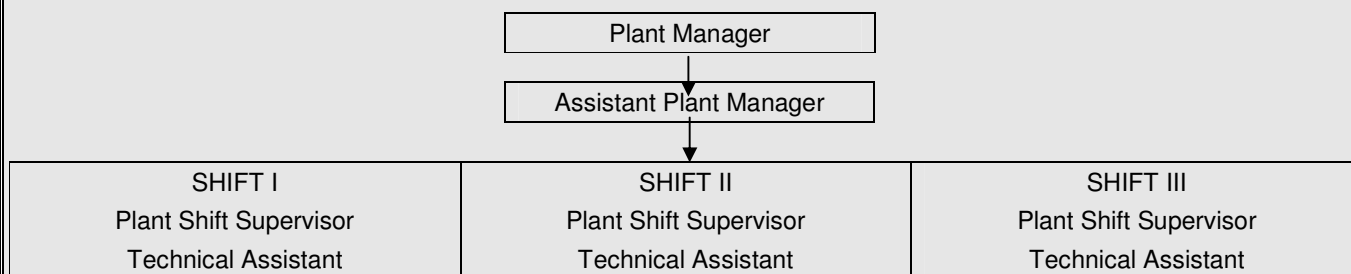
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For this project activity, the monitoring systems and procedures followed are as described below:

Energy:

1. The Energy exported (kWh) and Energy imported (kWh) at the interconnection points have been measured by the bidirectional meters (i.e. Trivector Meters) installed at the interconnection points at all the 3 (three) project sites.
2. The Net Saleable Energy (Net electricity exported to grid) has been calculated as a difference between energy exported and energy imported. It is based on monthly joint meter readings.
3. Monthly joint meter readings were taken at interconnection points and certified by representatives of Kotla Hydro Power Private Limited (KHPPL) and the purchaser i.e. Punjab State Electricity Board (PSEB).
4. The joint meter readings were used to raise invoice for sale of net energy to PSEB.
5. The energy generated has been measured by the energy meters installed at the generation points on an hourly basis.
6. The auxiliary energy consumption has been measured by the auxiliary energy consumption meters installed at each of the plant sites on an hourly basis.
7. The data of the aforesaid parameters are recorded on hourly basis which are summed into a daily reading.
8. The hourly reading of electricity generation and auxiliary consumption were aggregated to daily & monthly electricity figure.
9. Monthly reports stating the energy exported, energy imported, energy generated and auxiliary energy consumption were prepared by shift-in-charge and verified by plant managers.
10. The finance department cross checked the data provided by plant managers.

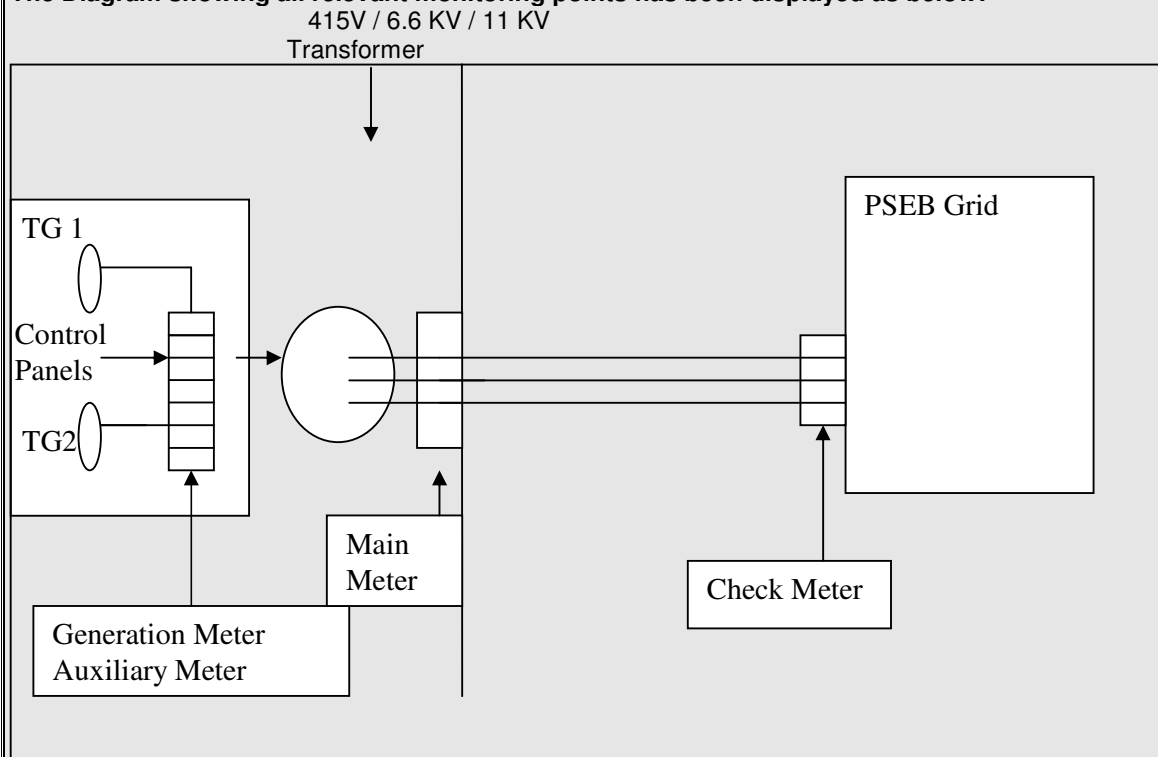
The organizational structure responsible for monitoring the various parameters as per Monitoring Plan is as below:-



The hourly data is monitored and recorded in the log books by the shift staff comprising of Plant Shift Supervisor and Technical Assistant. The daily data is checked and countersigned by the Assistant Plant Manager. The daily and monthly data is checked and verified by the Plant Manager. The data is audited annually by the auditor of the Company having financial background.

As per the registered PDD main meter will be the basis for billing. In case of failure of the main meter, check meter will be decisive for billing. In case of failure of both main and check meter, the emission reduction calculation will be done on the hourly generation and auxiliary consumption data recorded by KHPPL at generation end. During the monitoring period, the main meters for all the sites were in normal operating conditions and hence the main meter are decisive for emission reductions calculations.

The Diagram showing all relevant monitoring points has been displayed as below:



SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Data / Parameter:	Grid Emission Factor
Unit:	kg of CO ₂ / kWh
Description:	The Grid Emission Factor has been calculated as the weighted average of the Operating Margin Emission Factor (EF _{OM}) and the Build Margin Emission Factor (EF _{BM}).
Source of data:	Northern Region Grid's permission from Central Electricity Authority
Value(s) applied:	0.942
Purpose of data:	Baseline emission calculations
Additional comment:	This parameter is fixed ex-ante for the full crediting period

D.2. Data and parameters monitored

Data / Parameter:	Energy exported											
Unit:	kWh											
Description:	Energy exported to grid											
Measured/Calculated / Default:	Measured											
Source of data:	Joint Meter Reading											
Value(s) of monitored parameter:	<table border="1"> <thead> <tr> <th>Babanpur</th> <th>Killa</th> <th>Sahoke</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>8,011,340</td> <td>14,787,270</td> <td>9,474,910</td> <td>32,273,520</td> </tr> </tbody> </table>				Babanpur	Killa	Sahoke	Total	8,011,340	14,787,270	9,474,910	32,273,520
	Babanpur	Killa	Sahoke	Total								
8,011,340	14,787,270	9,474,910	32,273,520									

Monitoring equipment:	Main Meter			
	Particulars	Babanpur	Killa	Sahoke
Type	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter
Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%	(±)0.50%
Serial number	05271088	04223074	04223078	04223078
Calibration frequency	6 month	6 month	6 month	6 month
Calibrations dates and the validity during the monitoring period	29/06/2012 (valid till 28/12/2012) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 02/12/2013 (valid till 01/06/2014)	03/07/2012 (valid till 02/01/2013) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 30/11/2013 (valid till 29/05/2014)	05/07/2012 (valid till 04/01/2013) 15/12/2012 (valid till 14/06/2013) 08/06/2013 (valid till 07/12/2013) 06/12/2013 (valid till 05/06/2014)	05/07/2012 (valid till 04/01/2013) 15/12/2012 (valid till 14/06/2013) 08/06/2013 (valid till 07/12/2013) 06/12/2013 (valid till 05/06/2014)
	Check Meter			
	Particulars	Babanpur	Killa	Sahoke
Type	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter
Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%	(±)0.50%
Serial number	04187458	04259757	04223079	04223079
Calibration frequency	6 month	6 month	6 month	6 month
Calibrations dates and the validity during the monitoring period	29/06/2012 (valid till 28/12/2012) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 02/12/2013 (valid till 01/06/2014)	03/07/2012 (valid till 02/01/2013) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 30/11/2013 (valid till 29/05/2014)	05/07/2012 (valid till 04/01/2013) 15/12/2012 (valid till 14/06/2013) 08/06/2013 (valid till 07/12/2013) 06/12/2013 (valid till 05/06/2014)	05/07/2012 (valid till 04/01/2013) 15/12/2012 (valid till 14/06/2013) 08/06/2013 (valid till 07/12/2013) 06/12/2013 (valid till 05/06/2014)
Measuring/ Reading/ Recording frequency:	Continuous monitoring and monthly recording			
Calculation method (if applicable):	Not Applicable			

QA/QC procedures:	The power exported by KHPPL is monitored and recorded on the basis of reading of the Main Meter & Check Meter. Joint Meters reading are based on the Main Meter reading for the export and import of the electricity to and from the Grid. The principles of Frequency, Data recording and Reliability as mentioned in the PDD are strictly adhered to. The Main Meters and Check Meters are test checked for accuracy every six months by the team of PSEB. The Meters installed at generation end are also test checked for accuracy every six months.
Purpose of data:	To calculate baseline emissions
Additional comment:	Data will be archived on paper and kept for 2 years after the end of crediting period or the last issuance of CERs for this project activity, whichever occurs later

Data / Parameter	Energy imported											
Unit	kWh											
Description	Energy imported from grid											
Measured /Calculated /Default	Measured											
Source of data	Joint Meter Reading											
Value(s) of monitored parameter	<table border="1"> <thead> <tr> <th>Babanpur</th> <th>Killa</th> <th>Sahoke</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>9,340</td> <td>11,220</td> <td>9,190</td> <td>29,750</td> </tr> </tbody> </table>				Babanpur	Killa	Sahoke	Total	9,340	11,220	9,190	29,750
Babanpur	Killa	Sahoke	Total									
9,340	11,220	9,190	29,750									

Monitoring equipment	Main Meter			
	Particulars	Babanpur	Killa	Sahoke
	Type	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter
	Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%
	Serial number	05271088	04223074	04223078
	Calibration frequency	6 month	6 month	6 month
	Calibrations dates and the validity during the monitoring period	29/06/2012 (valid till 28/12/2012) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 02/12/2013 (valid till 01/06/2014)	03/07/2012 (valid till 02/01/2013) 12/12/2012 (valid till 11/06/2013) 10/06/2013 (valid till 09/12/2013) 30/11/2013 (valid till 29/05/2014)	05/07/2012 (valid till 04/01/2013) 15/12/2012 (valid till 14/06/2013) 08/06/2013 (valid till 07/12/2013) 06/12/2013 (valid till 05/06/2014)
	Check Meter			
	Particulars	Babanpur	Killa	Sahoke

F-CDM-MR

	Type	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter	L&T Electronic Bidirectional Trivector Meter
	Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%
	Serial number	04187458	04259757	04223079
	Calibration frequency	6 month	6 month	6 month
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	Measuring/Reading/Recording frequency	Continuous monitoring and monthly recoding		
	Calculation method(if applicable)	Not Applicable		
	QA/QC procedures	The main and check meters installed are bidirectional tri-vector meters capable of recording energy exported and energy imported. The same are test checked for accuracy every six months. The data of main meter is checked / compared with the data of the check meter.		
	Purpose of data	To calculate baseline emissions		
	Additional comment	Data will be archived on paper and kept for 2 years after the end of crediting period or the last issuance of CERs for this project activity, whichever occurs later		

Data / Parameter	Net saleable energy			
Unit	kWh			
Description	Net salable energy to grid			
Measured /Calculated /Default	Calculated			
Source of data	Joint Meter Reading			
Value(s) of monitored parameter	Babanpur	Killa	Sahoke	Total
	8,002,000	14,776,050	9,465,720	32,243,770
Monitoring equipment	As this is calculated, this section is not applicable for this monitoring parameter.			
Measuring/Reading/Recording frequency	Monthly recording			
Calculation method(if applicable)	Net Saleable energy = Energy Exported – Energy Imported			
QA/QC procedures	Net Saleable energy is the net exported energy which is the difference of energy exported and energy imported. Joint Meters reading are taken from the Main and Check Meter every month to arrive at Net Saleable Energy. Net saleable generation is calculated from main meter. The Main and Check Meters are tested for accuracy every six months.			

Purpose of data	To calculate baseline emission																														
Additional comment	Data will be archived on paper and kept for 2 years after the end of crediting period or the last issuance of CERs for this project activity, whichever occurs later																														
Data / Parameter	Energy generated																														
Unit	kWh																														
Description	Gross energy generated																														
Measured /Calculated /Default	Measured																														
Source of data	Plant records																														
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Measuring/Reading/ Recording frequency	Hourly																														
Calculation method (if applicable)	Not Applicable																														
QA/QC procedures	The readings of the energy generated are taken from the meters installed at generation point. These are test checked for accuracy every six months.																														
Purpose of data	This parameter has no been used for emission reduction calculation																														

Additional comment	Data will be archived on paper and kept for 2 years after the end of crediting period or the last issuance of CERs for this project activity, whichever occurs later																											
Data / Parameter	Auxiliary energy consumption																											
Unit	kWh																											
Description	Auxiliary energy consumed for running the plant																											
Measured /Calculated /Default	Measured																											
Source of data	Plant records																											
Value(s) of monitored parameter	Babanpur	Killa	Sahoke	Total																								
	99,785	124,244	98,759	322,788																								
Monitoring equipment	<table border="1"> <thead> <tr> <th>Particulars</th> <th>Babanpur</th> <th>Killa</th> <th>Sahoke</th> </tr> </thead> <tbody> <tr> <td>Type</td> <td>Rishabh</td> <td>Enercon</td> <td>Selec</td> </tr> <tr> <td>Accuracy class</td> <td>(±)0.50%</td> <td>(±)0.50%</td> <td>(±)0.50%</td> </tr> <tr> <td>Serial no.</td> <td>08/06/0915</td> <td>57343/1598-3804</td> <td>B:911</td> </tr> <tr> <td>Calibration frequency</td> <td>6 month</td> <td>6 month</td> <td>6 month</td> </tr> <tr> <td>Calibrations during monitoring period</td> <td>(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)</td> <td>(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)</td> <td>(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)</td> </tr> </tbody> </table>				Particulars	Babanpur	Killa	Sahoke	Type	Rishabh	Enercon	Selec	Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%	Serial no.	08/06/0915	57343/1598-3804	B:911	Calibration frequency	6 month	6 month	6 month	Calibrations during monitoring period	(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)	(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)	(20/06/2012 valid till 19/12/2012) 17/12/2012 (valid till 16/06/2013) 15/06/2013 (valid till 15/12/2013) 15/12/2013 (valid till 14/06/2014)
Particulars	Babanpur	Killa	Sahoke																									
Type	Rishabh	Enercon	Selec																									
Accuracy class	(±)0.50%	(±)0.50%	(±)0.50%																									
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Measuring/Reading/Recording frequency	Continuous monitoring and hourly recording																											
Calculation method (if applicable)	Not Applicable																											
QA/QC procedures	Auxiliary energy consumption readings are recorded at the auxiliary meters installed in the panel. These are test checked for accuracy every six months.																											
Purpose of data	This parameter has no been used for emission reduction calculation																											
Additional comment	Data will be archived on paper and kept for 2 years after the end of crediting period or the last issuance of CERs for this project activity, whichever occurs later																											

D.3. Implementation of sampling plan

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Not Applicable

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

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SN	Description	Formula	Unit	Value
A	Energy Exported		kWh	32,273,520
B	Energy Imported		kWh	29,750
C	Net Saleable Energy	$C = A - B$	kWh	32,243,770
D	Carbon Emission Factor as per the baseline adopted		kg CO ₂ /kWh	0.942
E	Baseline Emissions	$E = (C * D) / 1,000$	tCO ₂ e	30,373

E.2. Calculation of project emissions or actual net GHG removals by sinks

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No project emissions are associated with the project activity during this monitoring period. This is also in line with the PDD and methodology.

E.3. Calculation of leakage

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As the energy generating equipment is not transferred from another activity or the existing equipment is also not transferred to another activity, leakage is not considered. The same is in line with the methodology and the registered PDD.

E.4. Summary of calculation of emission reductions or net anthropogenic GHG removals by sinks

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	Emission reductions or net anthropogenic GHG removals by sinks (t CO ₂ e)
Total	30,373	Nil	NA	30,373

E.5. Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex-ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	30,594	30,373

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

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Emission Reduction during the monitoring period are less than the estimated value.

E.7. Actual emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Item	Actual values achieved up to 31 December 2012	Actual values achieved from 1 January 2013 onwards
Emission reductions or GHG removals by sinks (t CO ₂ e)	2,670	27,703

Annexure - I

The month wise data on energy generated in given hereunder. The monthly data is based on the hourly reading taken at the meters installed at the generation end

Energy Generated (kWh)

Billing Month	Year	Babanpur	Killa	Sahoke	Total
Nov	2012	503,940	937,556	588,037	2,029,533
Dec	2012	218,236	398,850	282,711	899,797
Jan	2013	611,280	1,131,042	683,495	2,425,817
Feb	2013	343,581	623,255	471,651	1,438,487
Mar	2013	619,945	1,135,500	689,520	2,444,965
Apr	2013	247,410	474,671	314,223	1,036,304
May	2013	739,012	1,387,760	784,707	2,911,479
Jun	2013	475,265	841,200	637,711	1,954,176
Jul	2013	687,997	1,207,834	681,595	2,577,426
Aug	2013	427,215	734,868	515,830	1,677,913
Sep	2013	668,135	1,173,086	666,030	2,507,251
Oct	2013	276,642	511,206	381,578	1,169,426
Nov	2013	546,470	1,035,934	698,600	2,281,004
Dec	2013	663,805	1,219,432	758,020	2,641,257
Jan	2014	672,030	1,228,236	775,560	2,675,826
Feb	2014	608,340	1,168,252	727,060	2,503,652
Total		8,309,303	15,208,682	9,656,328	33,174,313

Annexure - II

The month-wise data on auxiliary energy consumption is given hereunder. The monthly data is based on hourly reading taken at the auxiliary meters installed at the panel:

Auxiliary Energy Consumption (kWh)

Billing Month	Year	Babanpur	Killa	Sahoke	Total
Nov	2012	5,977	6,806	5,465	18,248
Dec	2012	4,812	5,328	4,912	15,052
Jan	2013	6,759	8,601	6,567	21,927
Feb	2013	4,749	6,729	4,775	16,253
Mar	2013	6,296	7,794	5,743	19,833
Apr	2013	3,979	4,899	4,609	13,487
May	2013	8,619	10,637	7,639	26,895
Jun	2013	6,824	7,450	7,062	21,336
Jul	2013	8,334	9,772	7,282	25,388
Aug	2013	6,705	7,666	6,635	21,006
Sep	2013	7,364	8,632	6,269	22,265
Oct	2013	5,438	7,044	5,630	18,112
Nov	2013	6,104	7,876	6,451	20,431
Dec	2013	6,081	8,044	6,808	20,933
Jan	2014	6,234	9,007	6,812	22,053
Feb	2014	5,510	7,959	6,100	19,569
Total		99,785	124,244	98,759	322,788

The energy generated data and auxiliary energy consumption data is not used for calculation of emission reductions as the calculation of emission reductions is based on Net Saleable energy i.e. the difference of energy exported and energy imported.

Annexure - III

Month-wise data on Net Saleable Energy for the monitoring period is given as under:

As per the Project Design Document, Emission reductions are to be calculated based on the energy exported minus energy imported during shut-down and start-ups by the power plant.

Net Saleable Energy (kWh)

Billing Month	Year	Energy Exported				Energy Imported				Net Saleable Energy
		Babanpur	Killa	Sahoke	Total	Babanpur	Killa	Sahoke	Total	
Nov	2012	486,080	909,310	577,620	1,973,010	660	1,030	670	2,360	1,970,650
Dec	2012	208,980	383,900	275,810	868,690	1,450	1,950	1,340	4,740	863,950
Jan	2013	589,920	1,095,000	669,060	2,353,980	110	20	50	180	2,353,800
Feb	2013	330,880	600,690	461,870	1,393,440	730	1,220	650	2,600	1,390,840
Mar	2013	598,740	1,101,270	677,530	2,377,540	390	520	500	1,410	2,376,130
Apr	2013	238,670	459,530	308,680	1,006,880	1,980	2,310	2,580	6,870	1,000,010
May	2013	712,930	1,343,620	770,810	2,827,360	150	50	110	310	2,827,050
Jun	2013	457,150	816,050	625,490	1,898,690	850	890	780	2,520	1,896,170
Jul	2013	662,260	1,175,740	668,400	2,506,400	90	40	80	210	2,506,190
Aug	2013	410,620	715,150	505,740	1,631,510	1,400	1,890	1,590	4,880	1,626,630
Sep	2013	644,250	1,143,040	653,680	2,440,970	170	60	120	350	2,440,620
Oct	2013	265,290	494,970	373,650	1,133,910	960	1,110	480	2,550	1,131,360
Nov	2013	527,480	1,011,700	686,530	2,225,710	160	50	80	290	2,225,420
Dec	2013	641,000	1,193,030	744,490	2,578,520	120	30	80	230	2,578,290
Jan	2014	649,260	1,201,340	761,150	2,611,750	70	40	40	150	2,611,600
Feb	2014	587,830	1,142,930	714,400	2,445,160	50	10	40	100	2,445,060
Total		8,011,340	14,787,270	9,474,910	32,273,520	9,340	11,220	9,190	29,750	32,243,770

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net anthropogenic GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
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