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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 NUMBER 01, 20/08/2011
DOLOWAL, SALAR AND BHANUBHURA MINI HYDROELECTRIC PROJECTS
REFERENCE NO. UNFCCC0328
FIFTH MONITORING REPORT (01/04/2010 TO 31/07/2011)

SECTION A. General description of the project activity

A.1. Brief description of the project activity :>>

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Three Mini Hydroelectric Projects (MHP) aggregating to 4.2 MW at Dolowal, Salar and Bhanubhura on the Kotla Branch Canal, District Sangrur, Punjab, India were commissioned in April 2003. The plants are operating as described in the PDD.

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.

1.4 MW hydroelectric power plant at Dolowal, 1.5 MW hydroelectric power plant at Salar and 1.3 MW hydroelectric power plant at Bhanubhura 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	Dolowal	Turbine & its accessories	2	700 kW	Triveni Engineering & Industries Limited (TEIL), New Delhi
		Induction Generator	2	700 kW	Crompton Greaves Limited
2	Salar	Turbine & its accessories	2	750 kW	TEIL., New Delhi
		Induction Generator	2	750 kW	Crompton Greaves Limited
3	Bhanubhura	Turbine & its accessories	2	650 kW	Boving Fouress Limited, Bangalore
		Induction Generator	2	650 kW	Crompton Greaves Limited

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

During the current monitoring period i.e. 01/04/2010 to 31/07/2011, the net power exported to the grid by the three plants is 26.759 million kWh, which corresponds to 25,207 tCO₂ emission reduction in the monitoring period.

A.2. Project Participants

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Punjab Hydro Power Private Limited

The name of the Company has been changed from “Punjab Hydro Power Limited” to “Punjab Hydro Power Private Limited”. The fresh certificate of incorporation and Host Country approval dated April 02, 2007 for the same has been received by the project activity. The records at CDM registry with respect to the revised modalities of communication signed by the all Project Participant have been updated.

Name of Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Kindly indicate if the Party wishes to be considered as a project participant (Yes/No)
India (host)	Private entity - Punjab Hydro Power Private Limited	No

A.3. Location of the project activity:

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MHP Dolowal : The project is located at Kotla Branch Canal

Latitude : 30° 32 ' 34 N, Longitude : 76° 03 ' 00 E
Town : Malerkotla
District : Sangrur
State : Punjab
Country : India

MHP Salar : The project is located at Kotla Branch Canal

Latitude : 30° 30 ' 37 N, Longitude : 75° 59 ' 41 E
Town : Malerkotla
District : Sangrur
State : Punjab
Country : India

MHP Bhanubhura : The project is located at Kotla Branch Canal

Latitude : 30° 27 ' 37 N, Longitude : 75° 56 ' 21 E
Town : Malerkotla
District : Sangrur
State : Punjab
Country : India

A.4. Technical description of the project

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The project activity consists of 3 sites of small hydro power plants i.e. Dolowal, Salar & Bhanubhura utilizing the potential and kinetic energy of the canal water to generate electricity.

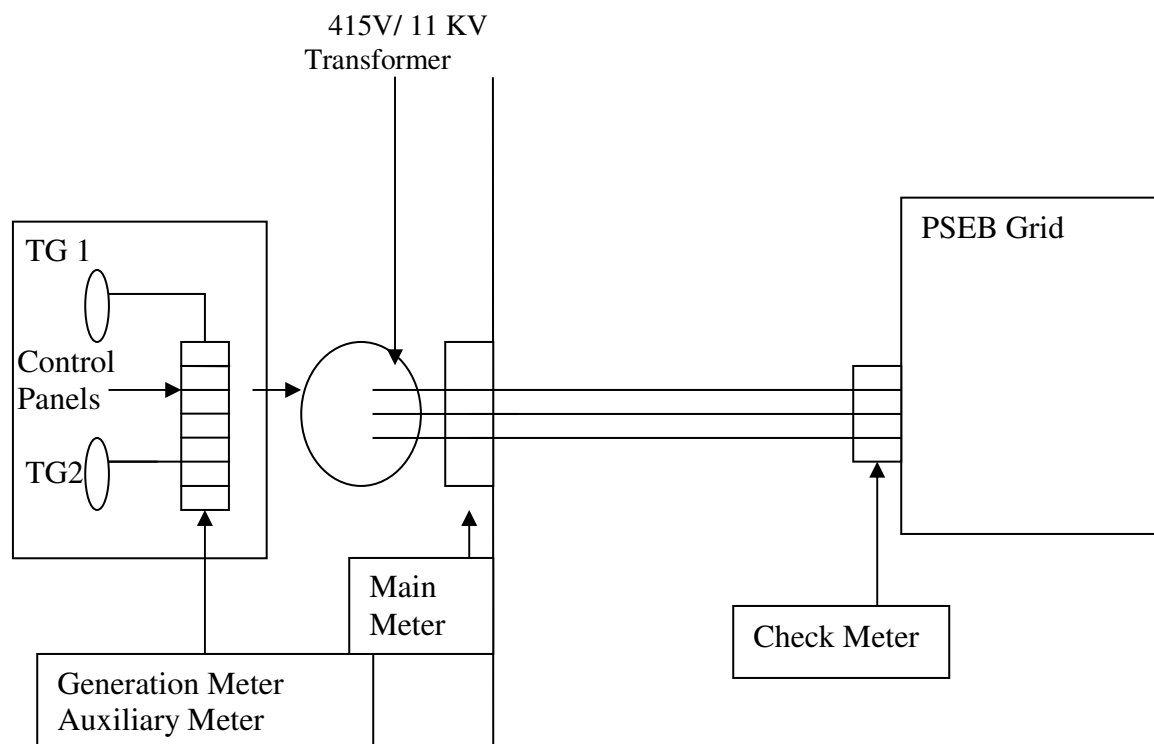
Dolowal: The powerhouse comprises of two induction generators of capacity 700 kW each coupled to two numbers of vertical Semi-Kaplan turbines. The power is generated at a voltage of 415V, which is further stepped-up to 11kV to match the nearest substation voltage level.

Salar: The powerhouse comprises of two induction generators of capacity 750 kW each coupled to two numbers of vertical Semi-Kaplan turbines. The power is generated at a voltage of 415V, which is further stepped-up to 11kV to match the nearest substation voltage level.

Bhanubhura: The powerhouse comprises of two induction generators of capacity 650 kW each coupled to two numbers of vertical Semi-Kaplan turbines. The power is generated at a voltage of 415V, which is further stepped-up to 11kV to match the nearest substation voltage level.

The principal components of each scheme are:

- a) Forebay and intake: Forebay is partly trapezoidal and RCC trough section where the water is diverted towards the powerhouse upon closure of main canal gates via the intake.
- b) Power House: A semi outdoor type power house has been provided to house of turbines, generator, and related electro-mechanical equipment.
- c) Draft Tube: RCC draft tube has been provided to convey the tail water emerging from discharge side of the turbine to the main canal via tailrace channel.
- d) Turbine: Vertical Semi Kaplan with siphon intake machines has been provided at Dolowal and Salar while Vertical Full Kaplan has been provided at Bhanubhura.
- e) Tailrace: The discharge emerging out of the draft tubes is carried back to the main canal on downstream of the project by trapezoidal shaped tailrace channel connecting draft tubes exit to the main canal.
- f) Switchyard: Surface type switchyard has been provided with necessary equipment for interfacing with the grid.



Note: Control panels comprise of Relays, Breakers, Synchronous, Generation Meters and Auxiliary Meters.

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

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Type I : Renewal Energy Projects
Category : I.D. Renewable Electricity Generation for a Grid
Version : 07

A.6. Registration date of the project activity:

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30/04/2006

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

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Crediting period for this project activity is 26/04/2003 to 25/04/2013 (Fixed).

Current monitoring report covers the fifth monitoring period associated with the project activity. Details of previous monitoring reports are given in the following table:

Summary of Previous Monitoring Reports

Monitoring Report	Monitoring Period (both days included)		Status
	From	To	
First	26/04/2003	31/03/2006	Successful Issuance
Second	01/04/2006	30/04/2007	Successful Issuance
Third	01/05/2007	30/06/2008	Successful Issuance
Fourth	01/07/2008	31/03/2010	Successful Issuance

The current monitoring period covered in this monitoring report is from 01/04/2010 to 31/07/2011 (both days included). This monitoring report does not cover any period of time covered by the previous monitoring reports.

A.8. Name of responsible person(s)/entity(ies):
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Name : Amit Kumar Agarwal
Contact No. : +919910107544
Email : akagarwal@polyplex.com

SECTION B. Implementation of the project activity

B.1. Implementation status of the project activity

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The projects were completed as planned and described in the PDD.

The project at Dolowal (1.4 MW), MHP Salar (1.5 MW) and MHP Bhanubhura (1.3 MW) are in operation since April 2003.

B.2. Revision of the monitoring plan

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The monitoring plan has not been revised.

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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Not applicable

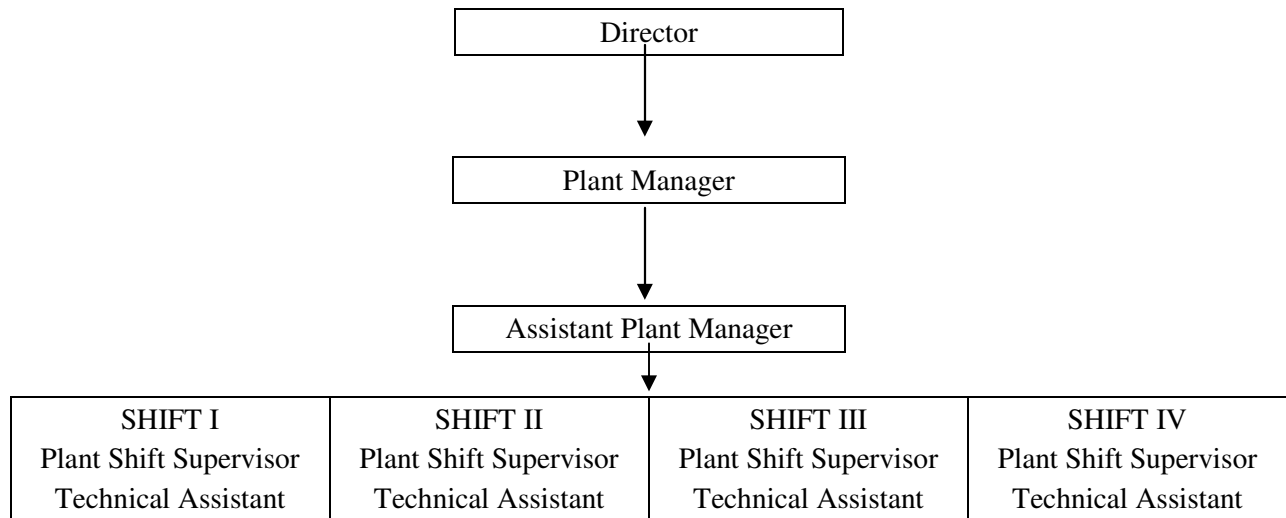
SECTION C. Description of the monitoring system

For the project activity, following parameters were monitored on a continuous basis.

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 Punjab Hydro Power Private Limited (PHPPL) 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 the plants 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.

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:	Grid Emission Factor
Data 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 used:	Northern Region Grid's permission from Central Electricity Authority
Value(s):	0.942
Data used for Baseline/Project/Leakage emission calculation)	Baseline emission calculations
Additional comment:	This parameter is fixed ex-ante for the full crediting period

D.2.1 Data and parameters monitored					
Data / Parameter:	Energy exported				
Data unit:	kWh				
Description:	Energy exported to grid				
Measured /Calculated /Default:	Measured				
Source of data:	Main / Trivector Meter				
Value(s) of monitored parameter:	Dolowal	Salar	Bhanubhura	Total	
	8,710,900	9,156,740	8,939,740	26,807,380	
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions				
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Particulars	Dolowal	Salar	Bhanubhura	
	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	03123065	03123066	03174966	
	Calibration frequency	6 month	6 month	6 month	
	Calibrations during monitoring period	24/02/2010	24/02/2010	24/02/2010	
		23/08/2010	23/08/2010	23/08/2010	
		18/02/2011	18/02/2011	18/02/2011	
Validity	17/08/2011	17/08/2011	17/08/2011		
Measuring/ Reading/ Recording frequency:	Monthly				
Calculation method (if applicable):	Not Applicable				
QA/QC procedures applied:	<p>As per the registered PDD the general principles for monitoring the energy exported to the grid are based on: Monthly joint meter reading of main meter installed at interconnection point shall be taken and signed by authorised official of PHPPL and PSEB on any day of the first week of every month as mutual consent. Records of this joint meter reading would be maintained by PHPPL.</p> <p>The principle of Frequency, Data recording and Reliability as mentioned in the PDD are strictly adhered to. The Main Meters and Check Meters were subjected to calibration every six months by Punjab State Electricity Board.</p>				

D.2.2 Data and parameters monitored					
Data / Parameter:	Energy imported				
Data unit:	KWh				
Description:	Energy imported from grid				
Measured /Calculated /Default:	Measured				
Source of data:	Main / Trivector Meter				
Value(s) of monitored parameter:	Dolowal	Salar	Bhanubhura	Total	
	16,860	14,840	16,240	47,940	
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions				
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Particulars	Dolowal	Salar	Bhanubhura	
	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	03123065	03123066	03174966	
	Calibration frequency	6 month	6 month	6 month	
	Calibrations during monitoring period	24/02/2010 23/08/2010 18/02/2011	24/02/2010 23/08/2010 18/02/2011	24/02/2010 23/08/2010 18/02/2011	
	Validity	17/08/2011	17/08/2011	17/08/2011	
	Measuring/ Reading/ Recording frequency:	Monthly			
Calculation method (if applicable):	Not Applicable				
QA/QC procedures applied:	<p>As per the registered PDD the general principles for monitoring the energy imported from the grid are based on:</p> <p>Monthly joint meter reading of main meter installed at interconnection point shall be taken and signed by authorised official of PHPPL and PSEB on any day of the first week of every month as mutual consent. Records of this joint meter reading would be maintained by PHPPL.</p> <p>The principle of Frequency, Data recording and Reliability as mentioned in the PDD are strictly adhered to. The Main Meters and Check Meters were subjected to calibration every six months by PSEB</p>				

D.2.3 Data and parameters monitored.					
Data / Parameter:	Net saleable energy				
Data unit:	kWh				
Description:	Net salable energy to grid				
Measured /Calculated /Default:	Calculated				
Source of data:	Main Meter / PSEB Monthly Bills				
Value(s) of monitored parameter:	Dolowal	Salar	Bhanubhura	Total	
	8,694,040	9,141,900	8,923,500	26,759,440	
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions				
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	As this is calculated, this section is not applicable for this monitoring parameter.				
Measuring/ Reading/ Recording frequency:	Monthly				
Calculation method (if applicable):	Net Saleable energy = Energy exported – Energy imported				
QA/QC procedures applied:	Net saleable energy is the net exported energy to the grid which is the difference of energy exported and energy imported. Joint meters reading are taken from the main meter and check meter every month to arrive at net saleable energy. The main & check meters are subject to calibration every six months.				

D.2.4 Data and parameters monitored					
Data / Parameter:	Energy generated				
Data unit:	kWh				
Description:	Gross energy generated				
Measured /Calculated /Default:	Measured				
Source of data:	Generation Meters				
Value(s) of monitored parameter:	Dolowal	Salar	Bhanubhura	Total	
	8,983,712	9,414,652	9,289,784	27,688,148	
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions				
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)					
	Particulars	Dolowal	Salar	Bhanubhura	
	Type	Enercon Digital Energy Meter	Enercon Digital Energy Meter	Minsun Digital Energy Meter	
	Accuracy class	(±) 0.5%	(±) 0.5%	(±) 0.5%	
	Serial No. (Unit-I)	E33/148-0702	E33/150-0702	6690502	
	Serial No. (Unit-II)	E33/149-0702	E33/151-0702	6690501	
	Calibration Frequency	6 month	6 month	6 month	
	Calibration during monitoring period	30/12/2009 28/06/2010 27/12/2010 25/06/2011	30/12/2009 28/06/2010 27/12/2010 25/06/2011	31/12/2009 28/06/2010 27/12/2010 25/06/2011	
	Validity	24/12/2011	24/12/2011	24/12/2011	
	Measuring/ Reading/ Recording frequency:	Hourly			
Calculation method (if applicable):	Not Applicable				
QA/QC procedures applied:	The readings of the energy generated are taken from the meters installed at generation point. These are subject to calibration every six months.				

.2.5 Data and parameters monitored				
Data / Parameter:	Auxiliary energy consumption			
Data unit:	KWh			
Description:	Auxiliary energy consumed for running the plant			
Measured /Calculated /Default:	Measured			
Source of data:	Auxiliary Meters			
Value(s) of monitored parameter:	Dolowal	Salar	Bhanubhura	Total
	132,695	123,295	125,298	381,288
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions			
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Particulars	Dolowal	Salar	Bhanubhura
	Type	Enercon	Conzerv	Enercon
	Accuracy class	(±)1.0%	(±)1.0%	(±)1.0%
	Serial no.	E64/1187-0902	172264/5705735-0909*	E64/1186-0902
	Calibration frequency	6 month	6 month	6 month
	Calibrations during monitoring period	30/12/2009 28/06/2010 27/12/2010 25/06/2011	30/12/2009 28/06/2010 27/12/2010 25/06/2011	31/12/2009 28/06/2010 27/12/2010 25/06/2011
	Validity	24/12/2011	24/12/2011	24/12/2011
Measuring/ Reading/ Recording frequency:	Hourly			
Calculation method (if applicable):	Not Applicable			
QA/QC procedures applied:	Auxiliary energy consumption readings are recorded at the auxiliary meters installed in the panel. These are subject to calibration every six months.			

*Indicates a replacement of meter, detail are given in the following table:

Site	Meter Type	Old Meter No.	New Meter No.	Date of Change
MHP Salar	Auxiliary Meter	E64/08-T1001	172264/5705735-0909	27/07/2011

SECTION E. Emission reduction calculation

E.1. Baseline emissions calculation

>>

Code	Description	Formula	Unit	Value
A	Energy Exported		kWh	26,807,380
B	Energy Imported		kWh	47,940
C	Net Saleable Energy	$C = A - B$	kWh	26,759,440
D	Carbon Emission Factor as per the baseline adopted		kg CO ₂ /kWh	0.942
E	Baseline Emissions	$E = (C * D) / 1,000$	ton CO ₂	25,207

E.2. Project emission calculation

>>

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. Leakage calculation

>>

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. Emission reductions calculation

>>

Baseline Emissions : 25,207
Project Emissions : NIL
Emissions Reductions : Baseline emissions – Project emission
= 25,207
= 25,207 tCO₂

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

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Item	Value applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO ₂)	28,053	25,207

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

>>

The actual emission reductions achieved during this monitoring period is less than the estimated figures in the registered PDD.

Annexure - I

The month wise data on energy generated is 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	Dolowal	Salar	Bhanubhura	Total
Apr	2010	288,122	387,153	376,460	1,051,735
May	2010	575,550	726,228	669,682	1,971,460
Jun	2010	1,021,138	1,012,378	944,074	2,977,590
Jul	2010	411,097	432,306	463,796	1,307,199
Aug	2010	836,962	851,589	852,218	2,540,769
Sep	2010	422,332	432,041	424,033	1,278,406
Oct	2010	324,845	332,008	340,958	997,811
Nov	2010	351,575	364,741	363,637	1,079,953
Dec	2010	613,945	636,012	683,533	1,933,490
Jan	2011	604,395	620,985	661,555	1,886,935
Feb	2011	510,818	559,455	610,007	1,680,280
Mar	2011	688,099	708,231	716,219	2,112,549
Apr	2011	218,054	231,827	200,031	649,912
May	2011	637,927	623,474	519,260	1,780,661
Jun	2011	660,830	676,030	679,953	2,016,813
Jul	2011	818,023	820,194	784,368	2,422,585
Total		8,983,712	9,414,652	9,289,784	27,688,148

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	Dolowal	Salar	Bhanubhura	Total
Apr	2010	7,982	6,667	7,336	21,985
May	2010	10,155	9,580	9,845	29,580
Jun	2010	12,481	10,964	11,093	34,538
Jul	2010	6,888	6,993	7,665	21,546
Aug	2010	11,287	10,075	10,588	31,950
Sep	2010	6,501	6,281	6,669	19,451
Oct	2010	4,038	4,584	4,610	13,232
Nov	2010	4,873	5,508	5,456	15,837
Dec	2010	7,944	7,542	6,807	22,293
Jan	2011	7,718	7,212	6,409	21,339
Feb	2011	7,848	6,905	6,054	20,807
Mar	2011	7,423	7,931	7,163	22,517
Apr	2011	5,229	5,444	5,819	16,492
May	2011	11,281	8,840	9,440	29,561
Jun	2011	10,573	9,188	9,867	29,628
Jul	2011	10,474	9,581	10,477	30,532
Total		132,695	123,295	125,298	381,288

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
		Dolowal	Salar	Bhanubhura	Total	Dolowal	Salar	Bhanubhura	Total	
Apr	2010	275,530	374,270	361,500	1,011,300	1,030	870	1,150	3,050	1,008,250
May	2010	556,120	705,010	643,240	1,904,370	680	700	750	2,130	1,902,240
Jun	2010	989,700	981,320	906,180	2,877,200	190	250	200	640	2,876,560
Jul	2010	397,840	419,200	446,120	1,263,160	1,430	1,260	1,550	4,240	1,258,920
Aug	2010	811,920	827,960	818,890	2,458,770	120	120	100	340	2,458,430
Sep	2010	408,840	418,900	407,810	1,235,550	2,540	2,360	2,600	7,500	1,228,050
Oct	2010	316,270	323,310	328,490	968,070	2,520	2,340	2,740	7,600	960,470
Nov	2010	341,090	354,600	350,770	1,046,460	1,520	1,390	1,600	4,510	1,041,950
Dec	2010	597,320	620,190	660,650	1,878,160	370	320	230	920	1,877,240
Jan	2011	588,170	606,310	638,210	1,832,690	850	910	920	2,680	1,830,010
Feb	2011	495,760	545,280	589,360	1,630,400	180	160	110	450	1,629,950
Mar	2011	669,980	691,650	691,570	2,053,200	290	350	310	950	2,052,250
Apr	2011	209,690	224,470	191,380	625,540	1,560	1,790	1,910	5,260	620,280
May	2011	618,790	607,950	498,880	1,725,620	2,820	1,190	1,260	5,270	1,720,350
Jun	2011	639,690	657,900	653,560	1,951,150	490	480	390	1,360	1,949,790
Jul	2011	794,190	798,420	753,130	2,345,740	270	350	420	1,040	2,344,700
Total		8,710,900	9,156,740	8,939,740	26,807,380	16,860	14,840	16,240	47,940	26,759,440