

MONITORING REPORT

VERSION-1 DATED 06th July 2009

FOR THE PERIOD
1st APRIL 2007 to 31st March 2009

0391: Indur 7.5 MW Non-Conventional Renewable Sources Biomass Power Project

INDUR GREEN POWER PRIVATE LIMITED

Plant Address

**INDUR GREEN POWER PVT.
LIMITED**

Opp. 132/33Kv Sub-Station,
Renjal (V&M), Nizambad (Dist)
Andhra Pradesh

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Registered Office

**INDUR GREEN POWER PVT.
LIMITED**

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CURRENT STATUS OF THE PROJECT

Indur Green Power Private Limited (IGPPL) 7.5 MW Non-Conventional Renewable Sources Biomass Power Project is located at Renjal (V&M), Bodhan Taluk, Nizamabad (Dist) of Andhra Pradesh, India. Project is commissioned on 15th Feb 2003 at 5:20Hrs, since then the plant is in Operation.

The project is registered with UNFCCC in 2006 and received two issuances of CERs in 2007 and 2008 as shown below.

Registration of the project with UNFCCC	10th June 2006
Monitoring period: 16 th February 2003 to 31 st March 2006	103675 CERs issued on 8 th January 2007
Monitoring period: 1 st April 2006 to 31 st March 2007	27898 CERs issued on 28 th February 2008

UNFCCC through its communication on 6th May 2008 directed Indur Green Power Private Limited and concerned DOE (DNV) to revise the monitoring plan to include diesel consumption at the project site of the project activity. In accordance with the direction, Indur Green Power Private Limited submitted revised PDD by including revised monitoring plan to UNFCCC through DOE (DNV) on 16th February 2009. Further to the directions of the Secretariat after completeness check of the document, revised monitoring plan alone has been submitted to UNFCCC through DOE (DNV) and the acknowledgement of the same has been received through email communication from Secretariat on 3rd March 2009. Revised monitoring plan is approved by UNFCCC on 23rd May 2009. This monitoring report is prepared in accordance with the approved Revised Monitoring Plan.

During the period from 1st April 2007 to 31st March 2009 for commercial operations, plant exported 69105.20 MWh of electricity to APTRANSCO grid and consumed 126383.00 MT of renewable biomass fuels.

Statement showing the outages, forced and planned shutdown periods

Plant is in operation continuously (with outages, forced & planned shutdowns) from 1st April 2007 to 31st March 2009 and year wise details of outages, forced and planned shut down periods are as mentioned below.

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	1st April 2007 to 31st March 2008	1st April 2008 to 31st March 2009
Total Number of available working days	366 days 00 hours 00 minutes	365 days 00 hours 00 minutes
Number of planned shutdowns including Shutdown days after completion of monthly target	33 days 15 hours 36 minutes	118 days 08 hours 37 minutes
Number of forced shutdowns	39 days 05 hours 29 minutes	28 days 06 hours 49 minutes
Total shutdown days	72 days 21 hours 05 minutes	146 days 15 hours 26 minutes
Total Shut down days for the monitoring period	219 days 12 hours 31 minutes	

Planned and Forced Shutdown days for the period 1st April 2007 to 31st March 2008										
PERIOD		SHUTDOWN DAYS								
From	To	Planned			Forced			Total		
		Days	Hours	Minutes	Days	Hours	Minutes	Days	Hours	Minutes
01-Apr-07	24-Apr-07	3	16	57	0	6	15	3	23	12
24-Apr-07	24-May-07	0	12	50	2	15	7	3	3	57
24-May-07	24-Jun-07	2	6	10	1	21	58	4	4	8
24-Jun-07	24-Jul-07	2	0	0	4	0	17	6	0	17
24-Jul-07	24-Aug-07	0	0	0	5	3	52	5	3	52
24-Aug-07	24-Sep-07	0	0	0	2	11	11	2	11	11
24-Sep-07	24-Oct-07	4	13	10	1	7	33	5	20	43
24-Oct-07	24-Nov-07	0	0	0	2	21	51	2	21	51
24-Nov-07	24-Dec-07	4	14	10	0	1	57	4	16	7
24-Dec-07	24-Jan-08	16	0	19	0	0	45	16	1	4
24-Jan-08	24-Feb-08	0	0	0	6	0	14	6	0	14
24-Feb-08	24-Mar-08	0	0	0	12	7	47	12	7	47
24-Mar-08	31-Mar-08	0	0	0	0	2	42	0	2	42
Total		33	15	36	39	5	29	72	21	5

Planned and Forced Shutdown days for the period 1st April 2008 to 31st March 2009										
PERIOD		SHUTDOWN DAYS								
From	To	Planned			Forced			Total		
		Days	Hours	Minutes	Days	Hours	Minutes	Days	Hours	Minutes
31-Mar-08	24-Apr-08	0	0	0	6	5	54	6	5	54
24-Apr-08	24-May-08	0	0	0	3	1	16	3	1	16

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24-May-08	24-Jun-08	1	10	27	1	15	58	3	2	25
24-Jun-08	24-Jul-08	3	17	22	1	17	12	5	10	34
24-Jul-08	24-Aug-08	14	12	12	2	15	43	17	3	55
24-Aug-08	24-Sep-08	22	10	8	0	1	10	22	11	18
24-Sep-08	24-Oct-08	14	9	24	0	6	25	14	15	49
24-Oct-08	24-Nov-08	16	11	50	0	0	32	16	12	22
24-Nov-08	24-Dec-08	7	23	25	0	1	24	8	0	49
24-Dec-08	24-Jan-09	5	21	10	5	6	45	11	3	55
24-Jan-09	24-Feb-09	4	1	9	3	1	9	7	2	18
24-Feb-09	24-Mar-09	19	23	30	4	5	21	24	4	51
24-Mar-09	31-Mar-09	7	12	0	0	0	0	7	12	0
Total		118	8	37	28	6	49	146	15	26

Monitoring Period

The Monitoring period is from **01st April 2007 to 31st March 2009**, both days inclusive.

Parameters being monitored in accordance with the approved Revised Monitoring Plan

As requested by the CDM Executive Board, the project proponent has revised this monitoring plan to incorporate one additional parameter as a part of the monitoring plan, namely, Diesel Consumption at the project facility. Though this parameter did not form a part of the monitoring plan in the registered PDD, the project proponent had already incorporated the same in the previous two monitoring reports submitted for the project activity against which CERs have already been issued. The links to the same have been given below:

1. Monitoring report: 16 Feb 2003 - 31 Mar 2006¹
2. Monitoring report: 01 Apr 2006 - 31 Mar 2007²

In the first monitoring report (16 Feb 2003 - 31 Mar 2006) the DOE issued a Forward Action Request (FAR) which has been given below:

¹ <http://cdm.unfccc.int/UserManagement/FileStorage/OOQ1R4P0TI622MVSQ1S6SPPLGNJHFP>
² <http://cdm.unfccc.int/UserManagement/FileStorage/YWR743XCPGRI8TDNVJX32TEY5KKSTS>

“Southern grid emission factor is calculated based on data from CEA annual reports and fixed for total crediting period. The power exported to the grid is monitored on daily basis by project team and on monthly basis by APTRANSCO officials in presence of plant management. The fuel consumption is done based on daily log books and stores records on daily basis. Monitoring of data pertaining to emissions due to consumption of diesel for DG set operations in case of emergency need to be made part of monitoring plan”.

Against the same the project proponent’s response which was duly accepted is stated below:

“Though the consumption of diesel in plant during the emergency conditions like black out is being monitored since beginning the same as not included in the monitoring protocol considering consumption in very small quantities. However, the same, will be included in the monitoring plan and separate records for the same will be maintained and the same will be made available during all future verifications as it was done during present verification.”

Since then the project proponent is maintaining up to date records pertaining to Diesel consumption and same have been made available during subsequent verifications.

Thus with the incorporation of this monitoring parameter, there would have no impact on the baseline and negligible impact on the emission reductions from the project activity.

In accordance with the revised monitoring plan, following parameters are being monitored for the project activity:

Sl. No	Parameter	Procedure
1	Electricity Generation (in kWh)	Power generated in the plant is measured using the energy meter installed in the plant on continuous basis. The total generated power is also used to compare the auxiliary consumption of the plant after deducting the power exported to the grid from total generation.
2	Auxiliary consumption (in kWh)	Power consumed by auxiliaries at the plant is measured as the difference between total electricity generated and electricity exported to the grid.
3	Power Export (in kWh)	Power exported to the grid is monitored from energy meters installed at APTRANSCO sub-station on 24th day of every month. Representatives of APTRANSCO and IGPPL are recording meter readings jointly for the energy exported to the Grid. Both the parties will jointly sign the recorded readings as a proof of export of Power to the grid from IGPPL plant. These meter readings are the basis for the invoices raised by Indur Green Power Private Limited

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4	<i>Power Import in kWh</i>	Power imported from the grid is monitored from energy meters installed at APTRANSCO sub-station on 24th day of every month. Representatives of APTRANSCO and IGPPL are recording meter readings jointly for the energy imported to the Grid. Both the parties will jointly sign the recorded readings as a proof of import of Power from APTRANSCO grid by the power plant. These meter readings are the basis for the invoices raised by <i>Indur Green Power Private Limited</i>
5	<i>Biomass Fuel (of all kinds) in MT</i>	<p>On receipt of Biomass fuel to the Plant, the vehicles are weighed on 40T Electronic Weigh Bridge installed at the entrance of the Plant and these will be unloaded in the fuel storage yards. The biomass fuel after necessary preparation is fed to the Boiler through Belt Conveyor as per the requirement and consumption will be recorded on daily basis.</p> <p>During the monitoring period, Plant used Rice Husk, Red gram Stalk and other Agricultural Waste Residues (like Bengal gram, Black gram and Trashes of Soya bean, Ground Nut Shell etc.) for the purpose of electricity generation.</p>
6	<i>Calorific value of the Biomass fuel (of all kinds) in kCal/Kg</i>	The calorific value of the Biomass fuel being used is measured in the in-house laboratory on daily basis as per the arrivals and average value will be considered on monthly basis.
7	<i>Diesel in Liters</i>	Diesel consumption will be monitored on regular basis using dip stick method
8	<i>Coal in MT</i>	Coal will be fed to the boiler as and when required and consumption will be recorded accordingly. As of now, no coal is being used in the plant for the purpose of electricity generation.

Power Generation, Export, Import & Fuel Consumption

Month-wise data on Power Generation, export, import, fuel consumption and diesel consumption during the monitoring period is given below:

Period		Electricity Generated, kWh	Electricity Exported, kWh	Electricity Imported, kWh	Total Biomass used, MT	Coal Used, MT	Diesel consumption, lit
From	To						
1 st April 2007 to 31 st March 2008							
01-Apr-07	24-Apr-07	3330700	2955800	8700	4511	0	32
24-Apr-07	24-May-07	4442800	3930900	10800	6418	0	24
24-May-07	24-Jun-07	4582300	4059600	12400	6682	0	15
24-Jun-07	24-Jul- 07	3975300	3513800	26500	5792	0	68
24-Jul- 07	24-Aug-07	4385300	3868000	28500	6529	0	53
24-Aug-07	24-Sep-07	3559600	3019900	11500	6816	0	30
24-Sep-07	24-Oct-07	2855100	2420700	15400	5055	0	87
24-Oct-07	24-Nov-07	3600400	3097600	10500	6580	0	24
24-Nov-07	24-Dec-07	4427800	3930600	5700	8036	0	93
24-Dec-07	24-Jan-08	2632600	2339700	16800	4222	0	20
24-Jan-08	24-Feb-08	4251700	3765100	18900	7208	0	19
24-Feb-08	24-Mar-08	2629900	2308800	29700	4517	0	72
24-Mar-08	31-Mar-08	1235400	1091100	1200	2125	0	3
Total for 2007-2008		45908900	40301600	196600	74491	0	540
1 st April 2008 to 24 th January 2009							
01-Apr-08	24-Apr-08	3089300	2735200	11800	5212	0	12
24-Apr-08	24-May-08	3675700	3181700	21600	6572	0	17.5
24-May-08	24-Jun-08	4189000	2661100	12500	5718	0	13.5
24-Jun-08	24-Jul- 08	4053500	3585100	14800	5380	0	73
24-Jul- 08	24-Aug-08	1766600	1531800	21200	3059	0	50
24-Aug-08	24-Sep-08	990000	851800	22900	1981	0	90
24-Sep-08	24-Oct-08	1648700	1401500	16300	3288	0	10
24-Oct-08	24-Nov-08	2451400	2169500	17600	3994	0	10
24-Nov-08	24-Dec-08	3372200	2957500	8100	5095	0	10
24-Dec-08	24-Jan-09	3298600	2914100	24100	5003	0	26
24-Jan-09	24-Feb-09	3752200	3305700	19000	5697	0	8

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24-Feb-09	24-Mar-09	578000	508600	36200	893	0	35
24-Mar-09	31-Mar-09	0	0	8500	0	0	2
Total for 2008-2009		32865200	28803600	234600	51892	0	357
TOTAL for 2007-2009		78774100	68105200	431200	126383	0	897

Note: 1) The above values are taken from 24th to 24th of Every Month (Billing Month Basis).

Emission Reductions

Emission reductions are calculated based on the power exported to the grid, power imported from the grid during shut down and start up, and diesel consumed in the plant from 01st April 2007 to 31st March 2009.

Baseline and project emissions are calculated as per the formulas and default values as mentioned in approved Revised Monitoring Plan. The same is given below:

Emissions	Formula used
Baseline emissions	= Electricity exported to the grid (kWh) x grid emission factor (tCO ₂ /kWh)
Project emissions	
Due to coal consumption	= Actual Coal consumed in MT x % carbon in coal x (44/12)
Due to diesel consumption	= [(Diesel consumed in liters x calorific value (TJ/kg) x density of fuel (kg/l))] x IPCC emission factor (tCO ₂ /TJ) x oxidation factor
Due to import of power from Grid	= Electricity imported from grid (kWh) x grid emission factor (tCO ₂ /kWh)

Grid Emission Factor (Ex ante value as per registered PDD)	= 0.830 tCO₂/MWh
Net Calorific Value of Diesel (Default Value as per revised Monitoring Plan)	= 43.0 TJ/Gg
Density of Diesel (Default Value as per Revised monitoring plan)	= 0.83 t/1000 Lit
IPCC Emission factor	= 74.1 tCO₂/TJ
Oxidation Factor of Diesel	= 1

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Period		Electricity Generated, kWh	Electricity Exported, kWh	Electricity Imported, kWh	Total Biomass used, MT	Coal Used, MT	Diesel consumption , lit	Emission Reductions/CERS
From	To							
1 st April 2007 to 31 st March 2008								
01-Apr-07	24-Apr-07	3330700	2955800	8700	4511	0	32	2446
24-Apr-07	24-May-07	4442800	3930900	10800	6418	0	24	3254
24-May-07	24-Jun-07	4582300	4059600	12400	6682	0	15	3359
24-Jun-07	24-Jul-07	3975300	3513800	26500	5792	0	68	2894
24-Jul-07	24-Aug-07	4385300	3868000	28500	6529	0	53	3187
24-Aug-07	24-Sep-07	3559600	3019900	11500	6816	0	30	2497
24-Sep-07	24-Oct-07	2855100	2420700	15400	5055	0	87	1996
24-Oct-07	24-Nov-07	3600400	3097600	10500	6580	0	24	2562
24-Nov-07	24-Dec-07	4427800	3930600	5700	8036	0	93	3257
24-Dec-07	24-Jan-08	2632600	2339700	16800	4222	0	20	1928
24-Jan-08	24-Feb-08	4251700	3765100	18900	7208	0	19	3109
24-Feb-08	24-Mar-08	2629900	2308800	29700	4517	0	72	1891
24-Mar-08	31-Mar-08	1235400	1091100	1200	2125	0	3	905
Total for the period 2007-2008		45908900	40310600	196600	74491	0	540	33286
1 st April 2008 to 24 th January 2009								
01-Apr-08	24-Apr-08	3089300	2735200	11800	5212	0	12	2260
24-Apr-08	24-May-08	3675700	3181700	21600	6572	0	18	2623
24-May-08	24-Jun-08	4189000	2661100	12500	5718	0	14	3028
24-Jun-08	24-Jul- 08	4053500	3585100	14800	5380	0	73	2963
24-Jul- 08	24-Aug-08	1766600	1531800	21200	3059	0	50	1254
24-Aug-08	24-Sep-08	990000	851800	22900	1981	0	90	688
24-Sep-08	24-Oct-08	1648700	1401500	16300	3288	0	10	1150
24-Oct-08	24-Nov-08	2451400	2169500	17600	3994	0	10	1786
24-Nov-08	24-Dec-08	3372200	2957500	8100	5095	0	10	2448
24-Dec-08	24-Jan-09	3298600	2914100	24000	5003	0	26	2399

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24-Jan-09	24-Feb-09	3,752,200	3,305,700	19,000	5,697	0	8	2,728
24-Feb-09	24-Mar-09	578,000	508,600	36,200	893	0	35	392
24-Mar-09	31-Mar-09	0	0	8,500	0	0	2	-7
Total for the period 2008-2009		32865200	28803600	234600	51892	0	357	23,711
Total for the period 2007-2009		78774100	69105200	431200	126383	0	897	56997

The detailed calculation sheet for the same is given in **Annexure – I** of the monitoring report.

Availability of biomass in the region:

The total biomass availability in the region was assessed based on the data available from the Central Planning Office, District Administration of Nizamabad District, Andhra Pradesh. The total biomass available in the region was estimated for the year 2006-07 at 2,351,000MT. Accordingly the total biomass utilization in the region is estimated at 1,566,790 MT per annum which includes biomass power plants and other users. The total surplus biomass in the region after consumption at the plant is 772,617 MT, which is about 50% of the quantity of biomass that is consumed in the region including the project activity. In accordance with the baseline and monitoring methodology AMS-I.D applied to the project activity, if the quantity of available biomass in the region is at least 25% higher than the quantity of biomass that is utilized including the project activity, then the source of leakage can be neglected. Otherwise this leakage shall be estimated and deducted from the emission reductions. Since the quantity of biomass is greater than 25%, there is no leakage attributed to the project activity.

Measures to Ensure the Results / Uncertainty Analysis

As per the Power Purchase Agreement (PPA), the energy exported to the AP Grid is recorded from two independent meters viz., Main Meter and Check Meter and reading of main meter is used for billing. In the event of main meter not in operation / fails, the reading of the check meter shall be used for Billing. The calibration of monitoring equipment is being maintained as per the requirement of APTRANSCO and the same is being done regularly. Power Generation, Export & Auxiliary Consumption, fuel consumption are being recorded daily and the same is being verified by General Manager and it will be approved by Plant Manager.

Internal audits are carried out by CDM team members in order to ensure that monitoring of the parameters is done as per the PDD and revised monitoring plan. Experts and consultants of Indur Green Power Private Limited also assisted CDM team in monitoring of the parameters as per monitoring plan.

Roles & Responsibilities

A CDM team has been formed in Indur Green Power Private Limited for monitoring and verification of all the monitoring parameters as per the guidelines formulated by the management of Indur Green Power Private Limited. Qualified and trained people monitor the parameters and emission reduction calculations. In the complete implementation and monitoring Plan, Indur Green Power Private Limited is the sole agency responsible for implementation and monitoring.

Members of CDM Team

- a) K. Chandraiah, Plant Manager
- b) Pavan Kumar Lasya, Manager (Finance & Accounts)
- c) J. Bhavani Shankar, Electrical Engineer.
- d) H. Ravi Kumar, Accounts Officer.
- e) Bhoom Reddy, Lab Incharge

Annexure – I: CER Calculations

Period From	Period To	Electricity Generated, kWh	Electricity Exported, kWh	Electricity Imported, kWh	Auxiliary Consumption, kWh (including T&D losses)	Total Biomass – MT	Coal Used, MT	Raw Material Total, MT	% Carbon in Coal	Emission Factor, kgCO2/ kWh	Baseline Emissions, tCo2e	Diesel consumption , lit	Project Emissions, tCO2e				EMISSION REDUCTIONS, Co2e
													Due to consumption of Diesel	Due to consumption of Coal	Due to import of Power	Total	
For the period 1 st April 2007 to 31 st March 2008																	
1-Apr-07	24-Apr-07	3330700	2955800	8700	374900	4511	0	4511	-	0.83	2453	32	0.09	0	7.22	7.3	2446
24-Apr-07	24-May-07	4442800	3930900	10800	511900	6418	0	6418	-	0.83	3263	24	0.07	0	8.96	9	3254
24-May-07	24-Jun-07	4582300	4059600	12400	522700	6682	0	6682	-	0.83	3369	15	0.04	0	10.29	10.3	3359
24-Jun-07	24-Jul-07	3975300	3513800	26500	461500	5792	0	5792	-	0.83	2916	68	0.19	0	22	22.2	2894
24-Jul-07	24-Aug-07	4385300	3868000	28500	517300	6529	0	6529	-	0.83	3210	53	0.15	0	23.66	23.8	3187
24-Aug-07	24-Sep-07	3559600	3019900	11500	539700	6816	0	6816	-	0.83	2507	30	0.08	0	9.55	9.6	2497
24-Sep-07	24-Oct-07	2855100	2420700	15400	434400	5055	0	5055	-	0.83	2009	87	0.24	0	12.78	13	1996
24-Oct-07	24-Nov-07	3600400	3097600	10500	502800	6580	0	6580	-	0.83	2571	24	0.07	0	8.72	8.8	2562
24-Nov-07	24-Dec-07	4427800	3930600	5700	497200	8036	0	8036	-	0.83	3262	93	0.26	0	4.73	5	3257
24-Dec-07	24-Jan-08	2632600	2339700	16800	292900	4222	0	4222	-	0.83	1942	20	0.06	0	13.94	14	1928
24-Jan-08	24-Feb-08	4251700	3765100	18900	486600	7208	0	7208	-	0.83	3125	19	0.05	0	15.69	15.7	3109
24-Feb-08	24-Mar-08	2629900	2308800	29700	321100	4517	0	4517	-	0.83	1916	72	0.2	0	24.65	24.9	1891
24-Mar-08	31-Mar-08	1235400	1091100	1200	144300	2125	0	2125	-	0.83	906	3	0.01	0	1	1	905
Total for the Period 2007-2008		45908900	40301600	196600	5607300	74491	0	74491			33450	540	1.51	0	163.18	165	33286
For the period 1 st April 2008 to 24 th January 2009																	
1-Apr-08	24-Apr-08	3089300	2735200	11800	354100	5212	0	5212	-	0.83	2270	12	0.03	0	9.79	9.8	2260
24-Apr-08	24-May-08	3675700	3181700	21600	494000	6572	0	6572	-	0.83	2641	18	0.05	0	17.93	18	2623
24-May-08	24-Jun-08	4189000	2661100	12500	527900	5718	0	5718	-	0.83	3039	14	0.04	0	10.38	10.4	3028

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24-Jun-08	24-Jul-08	4053500	3585100	14800	468400	5380	0	5380	-	0.83	2976	73	0.2	0	12.28	12.5	2963
24-Jul-08	24-Aug-08	1766600	1531800	21200	234800	3059	0	3059	-	0.83	1271	50	0.14	0	17.6	17.7	1254
24-Aug-08	24-Sep-08	990000	851800	22900	138200	1981	0	1981	-	0.83	707	90	0.25	0	19.01	19.3	688
24-Sep-08	24-Oct-08	1648700	1401500	16300	247200	3288	0	3288	-	0.83	1163	10	0.03	0	13.53	13.6	1150
24-Oct-08	24-Nov-08	2451400	2169500	17600	281900	3994	0	3994	-	0.83	1801	10	0.03	0	14.61	14.6	1786
24-Nov-08	24-Dec-08	3372200	2957500	8100	414700	5095	0	5095	-	0.83	2455	10	0.03	0	6.72	6.8	2448
24-Dec-08	24-Jan-09	3298600	2914100	24000	384500	5003	0	5003	-	0.83	2419	26	0.07	0	19.92	20.0	2399
24-Jan-09	24-Feb-09	3752200	3305700	19000	446500	5697	0	5697	-	0.83	2744	8	0.02	0	15.77	15.8	2728
24-Feb-09	24-Mar-09	578000	508600	36200	69400	893	0	893	-	0.83	422	35	0.10	0	30.05	30.1	392
24-Mar-09	31-Mar-09	0	0	8500	0	0	0	0	-	0.83	0	2	0.01	0	7.06	7.1	-7
Total for the period 2008-2009		32865200	28803600	234500	4061600	51892	0	51,892	-	0.83	23,907	357	0.95	0.00	194.64	195.59	23711
Total for the period 2007-2009		78774100	69105200	431100	9668900	126383	0	194284	-	0.83	57357	897	2.46	0	357.82	360.59	56997