

Annexure-1

Wind World India has come up with one of its kind internet portal for efficient display of the generation data and the status of the wind farm.

W-Care is internet portal for the customers to give them the daily generation reports and the status of their wind farm and their turbines on a day to day basis. This was developed to create a sense of transparency about the daily generation of the wind turbine and also to keep a central visual control about the various activities related to generation. This facility allows the customer to have clear visibility about the condition and the generation of their wind turbine.

Taking a step forward, to help the customer identify with a face and a voice where in they can communicate with a real face about the queries. This is a team where in the customers can call up and ask the panel about any Wind farm related query and activities.

Following step-by-step procedure will help you to view the web enabled DGR of Wind World India.

Step-01

Start your web browser application (e.g. Internet Explorer, Mozilla, Netscape Navigator etc) and type www.windworldindia.com in the address bar and press enter button from your keyboard. This will take you to the official portal of Enercon (India) Ltd. Go to Partner connect and then to Customer Portal. The screen will look as shown below.



Home page www.windworldindia.com

Step-02

Click on the link [customer login](#), to move to the following window.



WIND WORLD
Clean Energy Forever

Dear Customers,

In our continuous endeavor to improve the quality of the service to our esteemed customers, Wind World has come up with "W-CARE", a new Internet CRM portal for the Customer.

Different requirements collected through our Customer Feedback Surveys have been put together in this new customer portal. It is user friendly & easy to navigate with host of new options for you.

ENERCON INDIA IS NOW WIND WORLD INDIA

Its Time to Login.....

User Id:

Password:

[Click here if you forgot your password.](#)

[Click And View The Details:](#)

1. User Manual
2. Portal Navigation Steps
3. Portal Features

Login Cancel




Enter the **login id** and **password** provided to you in the respective text boxes.

Correct login will lead you to following screen.

You are visitor number 19233

HINDUSTAN ZINC LIMITED

Message For You
WISHING YOU VERY HAPPY DIPAWALI AND PROSPEROUS NEW YEAR.

Date:16/12/2008

State	Generation	Gen. Hours	Lull Hours	Capacity Factor	Machine
GUJARAT	74233	1967:00	666:30	3.48	98
KARNATAKA	265657	1029:00	03:00	32.18	1
Total	339890	2996:00	669:30	11.5	98

On this screen you will get (If the DGR for current date is available):

- a) The messages posted by e-care administrator.
- b) State-wise WEC Meter data in summarized manner.
- c) Expandable links for specific purposes.



NOTE: The state Names are Hyper-linked and can be further drilled down to Level & WEC Level by clicking on it.

Site

By Date
Daily DGR

Site	Generation	Gen. Hours	Lull Hours	Capacity Factor	Machine Availability	Grid Availability
HZL PHASE-02	44513	1111:00	382:00	3.68	98.74	100
HZL PHASE-01	29720	856:00	284:30	3.22	99	100
Total	74233	1967:00	666:30	3.48	98.86	100

[Back to Previous Page](#)

			Export To: 			
Generation Report						
HINDUSTAN ZINC LIMITED						
Location:		HZL PHASE-02 - GUJARAT		Machines:		E-53 X 3
Location Capacity:		2.4 MW		Date:		16-Dec-2008
WEC Data						
WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability (%)	Grid Availability(%)
HZLJV-01	1102	20:00	04:00	5.74	100	100
HZLJV-02	1329	21:00	03:00	6.92	100	100
HZLJV-03	1211	21:00	03:00	6.31	100	100
Total:3	3642	62:00	10:00	6.32	100	100
EB Data						
Description		KWH Export		KWH Import		Net KWH
Daily		3600		0		3600
Remarks						
NIL						

Step-03

Click on the plus sign (+) of **generation report** to expand the link as shown in the following figure. From this screen you will be able to generation **Daily (By-Day & DGR with Cumulative)**, **Monthly (By Month –Date Wise & By Month – Machine Wise)** and **Yearly (By Year)** generation reports.

You are visitor number 19233		HINDUSTAN ZINC LIMITED																	
Customer		Message from HINDUSTAN ZINC LIMITED WISHING YOU VERY HAPPY DIPAVALI																	
Reports		Date:16/12/2008																	
<ul style="list-style-type: none"> Generation Report <ul style="list-style-type: none"> By Day By Month-Date Wise By Month-Machine Wise By Year DGR With Cumulative 		<table> <tr> <th>State</th><th>Generation</th><th>Gen. Hours</th><th>Lull Hours</th></tr> <tr> <td>GUJARAT</td><td>74233</td><td>1967:00</td><td>666:30</td></tr> <tr> <td>KARNATKA</td><td>265657</td><td>1029:00</td><td>03:00</td></tr> <tr> <td>Total</td><td>339890</td><td>2996:00</td><td>669:30</td></tr> </table>		State	Generation	Gen. Hours	Lull Hours	GUJARAT	74233	1967:00	666:30	KARNATKA	265657	1029:00	03:00	Total	339890	2996:00	669:30
State	Generation	Gen. Hours	Lull Hours																
GUJARAT	74233	1967:00	666:30																
KARNATKA	265657	1029:00	03:00																
Total	339890	2996:00	669:30																

Step-04

Click on **BY Day**, select the date and click on **Generate** , to view the generation of a specific date.

You are visitor number 19233		Daily Generation Report																																											
Customer: HINDUSTAN ZINC LIMITED																																													
Select Date:		<div> <div> <div>Dec</div> <div>2008</div> </div> <div> <div><</div> <div>></div> </div> </div> <table> <tr> <td>Mo</td><td>Tu</td><td>We</td><td>Th</td><td>Fr</td><td>Sa</td><td>Su</td></tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr> <td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr> <td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr> <td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr> <td>29</td><td>30</td><td>31</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> </table> <div>Today : Dec 17, 2008</div>		Mo	Tu	We	Th	Fr	Sa	Su	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4
Mo	Tu	We	Th	Fr	Sa	Su																																							
1	2	3	4	5	6	7																																							
8	9	10	11	12	13	14																																							
15	16	17	18	19	20	21																																							
22	23	24	25	26	27	28																																							
29	30	31	1	2	3	4																																							
<ul style="list-style-type: none"> Generation Report <ul style="list-style-type: none"> By Day By Month-Date Wise By Month-Machine Wise By Year DGR With Cumulative Project Reports 		<div>Generate</div> <div>Cancel</div>																																											

Click in the button () next to date to open calendar. Select the date by clicking on it.

The screen may look as under.

You are visitor number 19233

Customer

Reports

- Generation Report
 - By Day
 - By Month-Date Wise
 - By Month-Machine Wise
 - By Year
 - DGR With Cumulative
- Project Reports

Daily Generation Report

Customer: HINDUSTAN ZINC LIMITED

Select Date: 16/12/2008

Generate Cancel

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capa
HZL PHASE-02	44513	1111:00	382:00	98.74	100	
HZL PHASE-01	29720	856:00	284:30	99	100	
GUJARAT	74233	1967:00	666:30	98.86	100	
GADAG PLANES	265657	1029:00	03:00	100	100	
KARNATKA	265657	1029:00	03:00	100	100	
OverALL	339890	2996:00	669:30	99.17	100	

(This can be further drilled down to WEC Level as explained above)

[Back](#) [Excel](#)

Generation Report:

HINDUSTAN ZINC LIMITED

Location: HZL PHASE-02 - GUJARAT Machines: E-53 X 3

Location Capacity: 2.4 MW Date: 16-Dec-2008

WEC Data

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	1102	20:00	04:00	5.74	100	100
HZLJV-02	1329	21:00	03:00	6.92	100	100
HZLJV-03	1211	21:00	03:00	6.31	100	100
Total:3	3642	62:00	10:00	6.32	100	100

EB Data

Description	KWH Export	KWH Import	Net KWH
Daily	3600	0	3600

Remarks

[Back](#) Will take you to the previous page.

[Excel](#) Will allow you to save the report in the Excel format.

Step-05

Click on **By Month-Date wise** to view the monthly generation Date by Date.

You are visitor number 19233

Customer

Reports

- Generation Report
 - By Day
 - By Month-Date Wise
 - By Month-Machine Wise
 - By Year
 - DGR With Cumulative

Daily Generation Report

Customer: HINDUSTAN ZINC LIMITED

Select Month: DECEMBER Select Year: 2008

Generate Cancel

Select Month (**DECEMBER**) and Year (**2008**) from the Drop Down list and Generate. A monthly summary report will appear.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	3929135	21821:00	2042:45	99.31	99.33	20.3
HZL PHASE-01	3429595	16855:00	1272:15	99.52	98.83	23.26
GUJARAT	7358730	38676:00	3315:00	99.4	99.11	21.58
GADAG PLANES	2174626	15677:00	432:45	97.56	100	16.46
KARNATKA	2174626	15677:00	432:45	97.56	100	16.46

Click on the Location name, Hyperlink (**HZL PHASE-02**) to get **Date-Wise Generation** report for the entire month.

Generation Date: 01-12-2008

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	7154	24:00	0	37.26	100	100
HZLJV-02	6758	24:00	0	35.2	100	100
HZLJV-03	7710	24:00	0	40.16	100	100
Total:3	21622	72:00	0	37.54	100	100

EB Data

Description	KWH Export	KWH Import	Net KWH
Daily	21400	0	21400

Remarks

Generation Date: 02-12-2008

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	2514	23:00	01:00	13.09	100	100
HZLJV-02	2242	22:00	02:00	11.68	100	100
HZLJV-03	2720	24:00	0	14.17	100	100
Total:3	7476	69:00	03:00	12.98	100	100

Step-06

Click on **By Month Machine-Wise** to view the generation WEC by WEC.

You are visitor number 19233

Customer

Reports

- Generation Report
 - By Day
 - By Month-Date Wise**
 - By Month-Machine Wise
 - By Year
 - DGR With Cumulative

Daily Generation Report

Customer: **HINDUSTAN ZINC LIMITED**

Select Month: **DECEMBER** Select Year: **2008**

Generate **Cancel**

Select **Month** (**DECEMBER**) and **Year** (**2008**) from the Drop Down list and Generate. A monthly summary report will appear.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	3929135	21821:00	2042:45	99.31	99.33	20.3
HZL PHASE-01	3429595	16855:00	1272:15	99.52	98.83	23.26
GUJARAT	7358730	38676:00	3315:00	99.4	99.11	21.58
GADAG PLANES	2174626	15677:00	432:45	97.56	100	16.46
KARNATKA	2174626	15677:00	432:45	97.56	100	16.46

Click on the Location name Hyperlink ([HZL PHASE-02](#)) to get per **WEC Date-Wise Generation** report for the entire month. Here Each WEC itself is a Hyper Link.

[Back](#)
[View All Machine](#)
[Excel](#)

Generation Report:

HINDUSTAN ZINC LIMITED

Location: HZL PHASE-02 - GUJARAT

Machines: E-53 X 3

Location Capacity: 2.4 MW

Month: DECEMBER-2008

WEC Data

WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	60664	350:00	34:00	19.75	100	100
HZLJV-02	56895	347:00	37:00	18.52	100	100
HZLJV-03	60795	353:00	31:00	19.79	100	100
Total:	178354	1050:00	102:00	19.35	100	100

EB Data

Description	KWH Export	KWH Import	Net KWH
Monthly	176400	100	176300

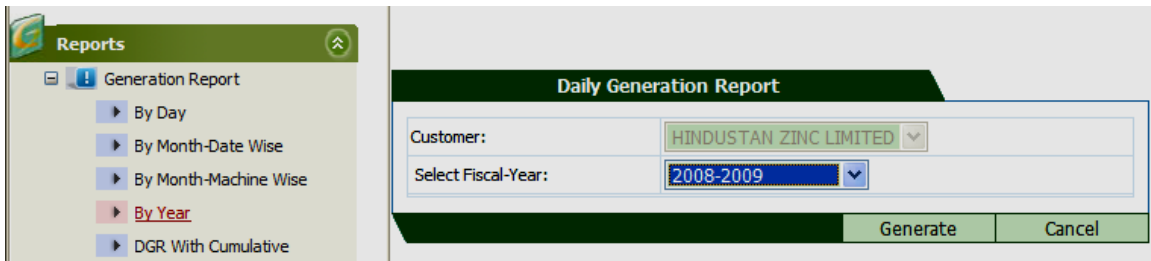
Here each WEC itself is a Hyper Linked Object. Click on WEC to View that WEC's Day-by-Day generation.

Date	Generation	Operating Hours	Lull Hours	Capacity Factor (%)	Machine Availability(%)	Grid Availability (%)
01-Dec-2008	7154	24:00	0	37.26	100	100
02-Dec-2008	2514	23:00	01:00	13.09	100	100
03-Dec-2008	2845	24:00	0	14.82	100	100
04-Dec-2008	1923	18:00	06:00	10.02	100	100
05-Dec-2008	3505	24:00	0	18.26	100	100
06-Dec-2008	1564	17:00	07:00	8.15	100	100
07-Dec-2008	4857	24:00	0	25.3	100	100
08-Dec-2008	686	16:00	08:00	3.57	100	100
09-Dec-2008	1520	16:00	08:00	7.92	100	100
10-Dec-2008	6124	24:00	0	31.9	100	100
11-Dec-2008	8547	24:00	0	44.52	100	100
12-Dec-2008	7265	24:00	0	37.84	100	100
13-Dec-2008	4335	24:00	0	22.58	100	100
14-Dec-2008	4439	24:00	0	23.12	100	100
15-Dec-2008	2284	24:00	0	11.9	100	100
16-Dec-2008	1102	20:00	04:00	5.74	100	100
Total:	60664	350:00	34:00	19.75	100	100

Click on ([View All Machine](#)) to Generate the same report for all WEC WEC-By-WEC.

Step-07

Click on **By Year** to view the generation for a Year.



Select Year (**2008-2009**) from the Drop Down list and Generate, **Yearly Summary** report.

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capacity Factor(%)
HZL PHASE-02	77376055	358955:00	20885:10	98.87	98.78	24.86
HZL PHASE-01	58989026	279186:00	14103:55	99.33	98.94	24.71
GUJARAT	136365081	638141:00	34989:05	99.07	98.85	24.8
GADAG PLANES	45037052	206121:00	15711:10	98.39	99.02	24.72
KARNATKA	45037052	206121:00	15711:10	98.39	99.02	24.72

Click on the Location name Hyperlink (**HZL PHASE-02**) to get **each WEC Yearly Cumulative Generation** report.

WEC Data						
WEC Name	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
HZLJV-01	1341429	5813:00	305:38	26.87	98.99	99.06
HZLJV-02	1337297	5815:00	314:28	26.79	99.16	99.06
HZLJV-03	1341749	5836:00	314:18	26.88	99.5	99.06
Total:	4020475	17464:00	934:24	26.85	99.22	99.06

Here Each WEC itself is a Hyper Link. Click on **WEC** to View that WEC's **Month-by-Month** generation.

Location: Capacity:		HZL PHASE-02-GUJARAT E-53/800		Year: WEC:		2008-2009 HZLJV-01	
WEC Data							
Month	Generation	Operating Hours	Lull Hours	Capacity Factor (%)	Machine Availability(%)	Grid Availability (%)	
APRIL	133574	645:00	45:50	23.19	98.04	97.91	
MAY	293505	720:00	08:31	49.31	98.87	99.05	
JUNE	224993	665:00	15:32	39.06	98.44	96.08	
JULY	186953	728:00	07:40	31.41	99.6	99.28	
AUGUST	169810	726:00	15:45	28.53	99.7	100	
SEPTEMBER	116932	662:00	44:20	20.3	98.47	99.63	
OCTOBER	50363	646:00	98:00	8.46	100	100	
NOVEMBER	104635	671:00	36:00	18.17	98.19	100	
DECEMBER	60664	350:00	34:00	19.75	100	100	
Total:	1341429	5813:00	305:38	26.87	98.99	99.06	

[View All Machine](#)

Click on () to Generate the same report for all WEC WEC-By-

Capacity:		E-53/800	WEC:		HZLJV-01	
WEC Data						
Month	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
APRIL	133574	645:00	45:50	23.19	98.04	97.91
MAY	293505	720:00	08:31	49.31	98.87	99.05
JUNE	224993	665:00	15:32	39.06	98.44	96.08
JULY	186953	728:00	07:40	31.41	99.6	99.28
AUGUST	169810	726:00	15:45	28.53	99.7	100
SEPTEMBER	116932	662:00	44:20	20.3	98.47	99.63
OCTOBER	50363	646:00	98:00	8.46	100	100
NOVEMBER	104635	671:00	36:00	18.17	98.19	100
DECEMBER	60664	350:00	34:00	19.75	100	100
Total:	1341429	5813:00	305:38	26.87	98.99	99.06

HINDUSTAN ZINC LIMITED

Location:	HZL PHASE-02-GUJARAT	Year:	2008-2009
Capacity:	E-53/800	WEC:	HZLJV-02

WEC Data

Month	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability(%)	Grid Availability(%)
APRIL	136873	656:00	38:45	23.76	98.59	97.91
MAY	299655	731:00	05:11	50.35	99.9	99.05
JUNE	225595	660:00	14:17	39.17	97.57	96.08
JULY	185981	728:00	10:40	31.25	100	99.28
AUGUST	170481	726:00	13:45	28.64	99.43	100
SEPTEMBER	110405	656:00	55:20	19.17	99.17	99.63
OCTOBER	50338	644:00	100:00	8.46	100	100

Step-08

Click on **DGR with Cumulative**, select date and generate to view the Daily Generation Report in different format.

You are visitor number 19233

Customer

HINDUSTAN ZINC LIMITED

Reports

- Generation Report
 - By Day
 - By Month-Date Wise
 - By Month-Machine Wise
 - By Year
 - DGR With Cumulative
- Project Reports

Daily Generation Report

Customer: HINDUSTAN ZINC LIMITED

Select Date:

Dec 2008


Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4


Today : Dec 17, 2008

Generate Cancel

The screen may look as under.

You are visitor number 19233


Customer 

Reports 

- Generation Report
 - By Day
 - By Month-Date Wise
 - By Month-Machine Wise
 - By Year
 - DGR With Cumulative
- Project Reports

Daily Generation Report

Customer:

Select Date: 

Location	Generation(KWH)	Operating Hours(hrs)	Lull HRS	Machine Avail(%)	Grid Avail(%)	Capa
HZL PHASE-02	44513	1111:00	382:00	98.74	100	
HZL PHASE-01	29720	856:00	284:30	99	100	
GUJARAT	74233	1967:00	666:30	98.86	100	
GADAG PLANES	265657	1029:00	03:00	100	100	
KARNATKA	265657	1029:00	03:00	100	100	
Over ALL	339890	2996:00	669:30	99.17	100	

Explore the hyper links to view the detailed Generation Report.

Generation Report:

HINDUSTAN ZINC LIMITED

Location: HZL PHASE-02 - GUJARAT Machines: E-53 X 3
 Location Capacity: 2.4 MW Date: 02-Dec-2008

WEC Data

WEC Name	Daily						Monthly	
	Generation	Operating Hours	Lull Hours	Capacity Factor(%)	Machine Availability (%)	Grid Availability (%)	Generation	Operating Hours
HZLJV-01	2514	23:00	01:00	13.09	100	100	9668	47:00
HZLJV-02	2242	22:00	02:00	11.68	100	100	9000	46:00
HZLJV-03	2720	24:00	0	14.17	100	100	10430	48:00
Total:3	7476	69:00	03:00	12.98	100	100	29098	141:00

EB Data

Description	KWH Export	KWH Import	Net KWH
Daily	7400	0	7400
Monthly	28800	0	28800
Yearly	3682410	1600	3680810

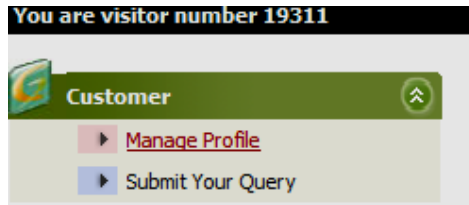
Remarks

We can view the WEC data on Daily, Monthly and Yearly format.

This will help us to save the report in PDF like format.

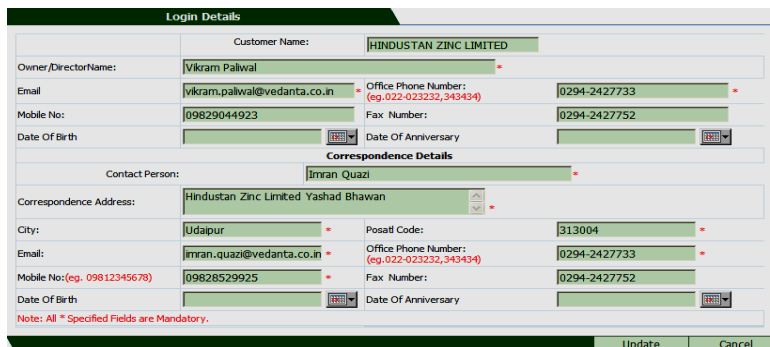
Additional

Expand customer option and use following options.



I. Manage profile:

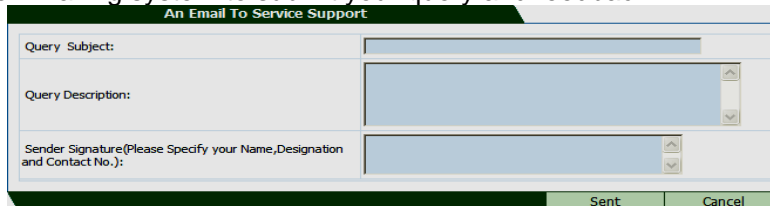
Use this option to enter and update your contact details.



The screenshot shows a form titled "Login Details". It contains fields for "Customer Name" (HINDUSTAN ZINC LIMITED), "Owner/Director Name" (Vikram Pallwal), "Email" (vikram.pallwal@vedanta.co.in), "Mobile No." (09829044923), "Date Of Birth", "Office Phone Number" (0294-2427733), "Fax Number" (0294-2427752), and "Date Of Anniversary". Below these is a section for "Correspondence Details" with fields for "Contact Person" (Imran Quazi), "Correspondence Address" (Hindustan Zinc Limited Yashad Bhawan), "City" (Udaipur), "Postal Code" (313004), "Email" (imran.quazi@vedanta.co.in), "Office Phone Number" (0294-2427733), "Fax Number" (0294-2427752), and "Date Of Anniversary". A note at the bottom states: "Note: All * Specified Fields are Mandatory." Buttons for "Update" and "Cancel" are at the bottom right.

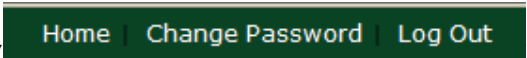
II. Submit Your Query:

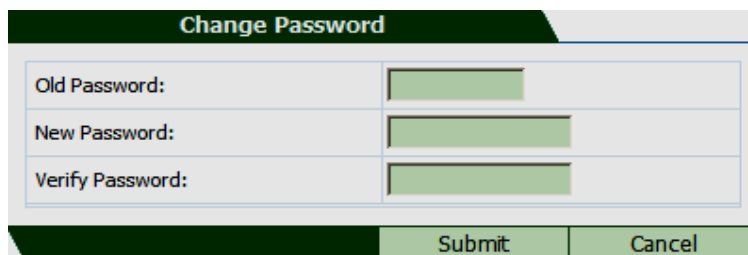
This is an On-line Emailing system to submit your query and feedback.



The screenshot shows a form titled "An Email To Service Support". It has fields for "Query Subject:", "Query Description:", and "Sender Signature (Please Specify your Name, Designation and Contact No.):". There are also "Sent" and "Cancel" buttons at the bottom right.

III. Change Password:

Using Change Password option () appearing in title of the page, you can change the Login Passwords.



The screenshot shows a form titled "Change Password". It has three input fields: "Old Password:", "New Password:", and "Verify Password:". There are "Submit" and "Cancel" buttons at the bottom right.

HAPPY VIEWING



Abbreviation details in DGR Remarks

- PM** - Preventive Maintenance
STS - Special Maintenance / Retrofitting / Modifications/STS Work
BD - Breakdown Maintenance
FM - Force Majeure (Local issues etc)
GF - Internal / External Grid fault
GS - Internal / External Grid shut down.
CS - Customer Scope (WEC Down due to nonpayment of O&M Fee, or any issue related to contract or customer site)
LR - Load Restriction (Load Restriction from State Electricity board)

e.g.

PM - PLLL-01 - 6 Hrs (09:00 AM to 03:00 PM) - Electrical Maintenance.

STS - JAL-07 - 24 Hrs - 06:00 PM(15/02/2011) to 06:00PM (16/02/2011) - 11th Year Overhaul.

BD - GPMG-05 - 24 Hrs - 00:00 PM(16/02/2011) to 23:59PM (17/02/2011) - Protection Circuit Board Trip, Slip Ring Body Failure - Generator winding.

FM - GPMV-08 - 24 Hrs - 00:00 PM(16/02/2011) to 23:59PM (17/02/2011) - unable to attend due to Local Problem, which comes under Force Majeure.

GF - JAL-01 to JAL-18 - 06.30 Hrs - (09:00 to 15:30) - Internal / External Grid fault due to Pin insulator punctured.

GS - JAL-01 to JAL-18 - 06.30 Hrs - (15:30 to 22:00) - Internal / External Grid S/d for External Electric Maintenance.

LR - JAL-01 to 18 – 5 Hrs-(09:00 to 14:00) – Load restriction from State Electricity board.