

# Remote Diagnostic System (RDS)

## USER MANUAL

For

Indian Railways Fleet Monitoring – Web Page



**Advanced Rail Controls Pvt. Ltd**

Bangalore-560092

**RELEASE - V 2.1**

**July– 2014**

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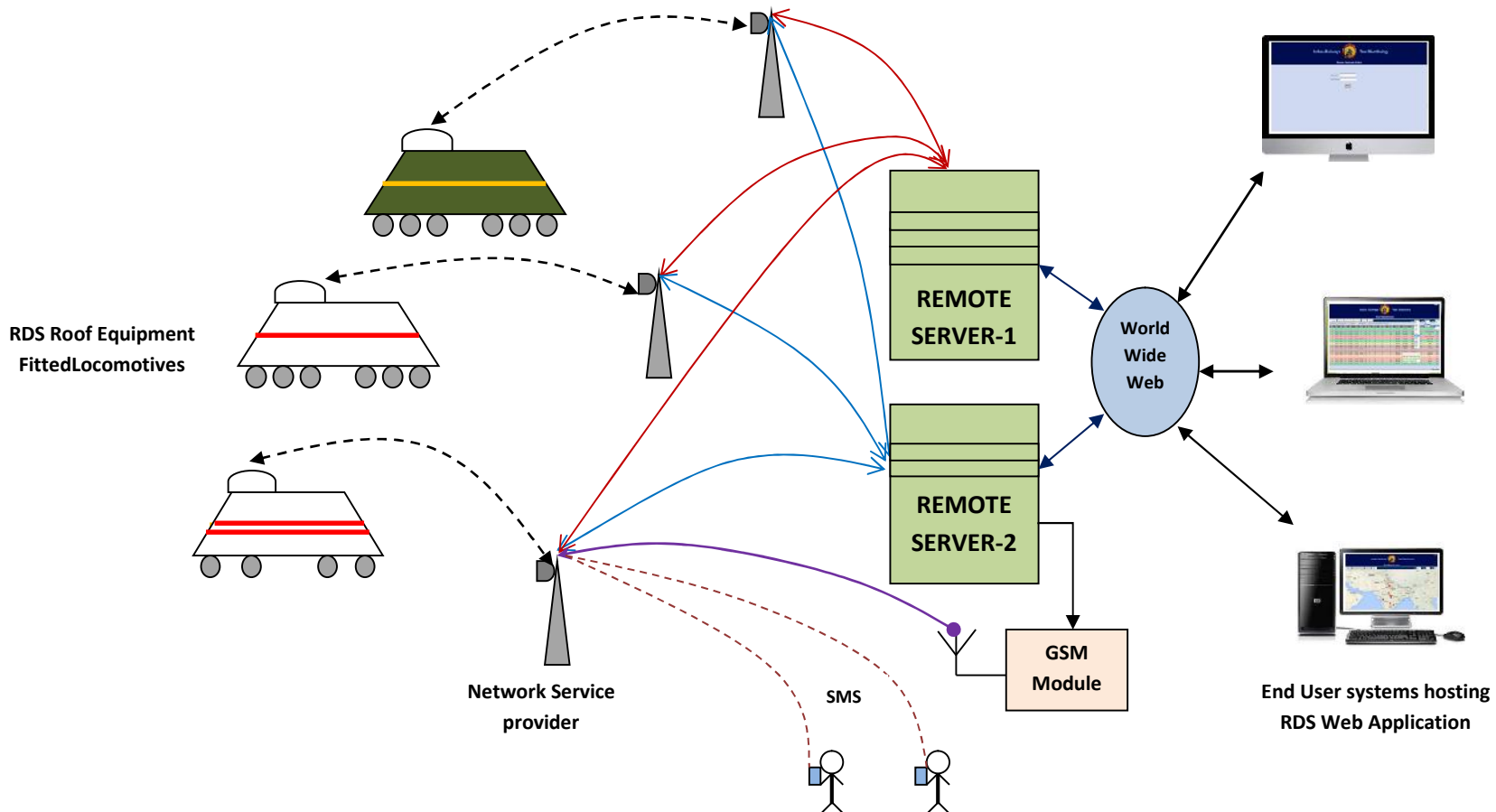
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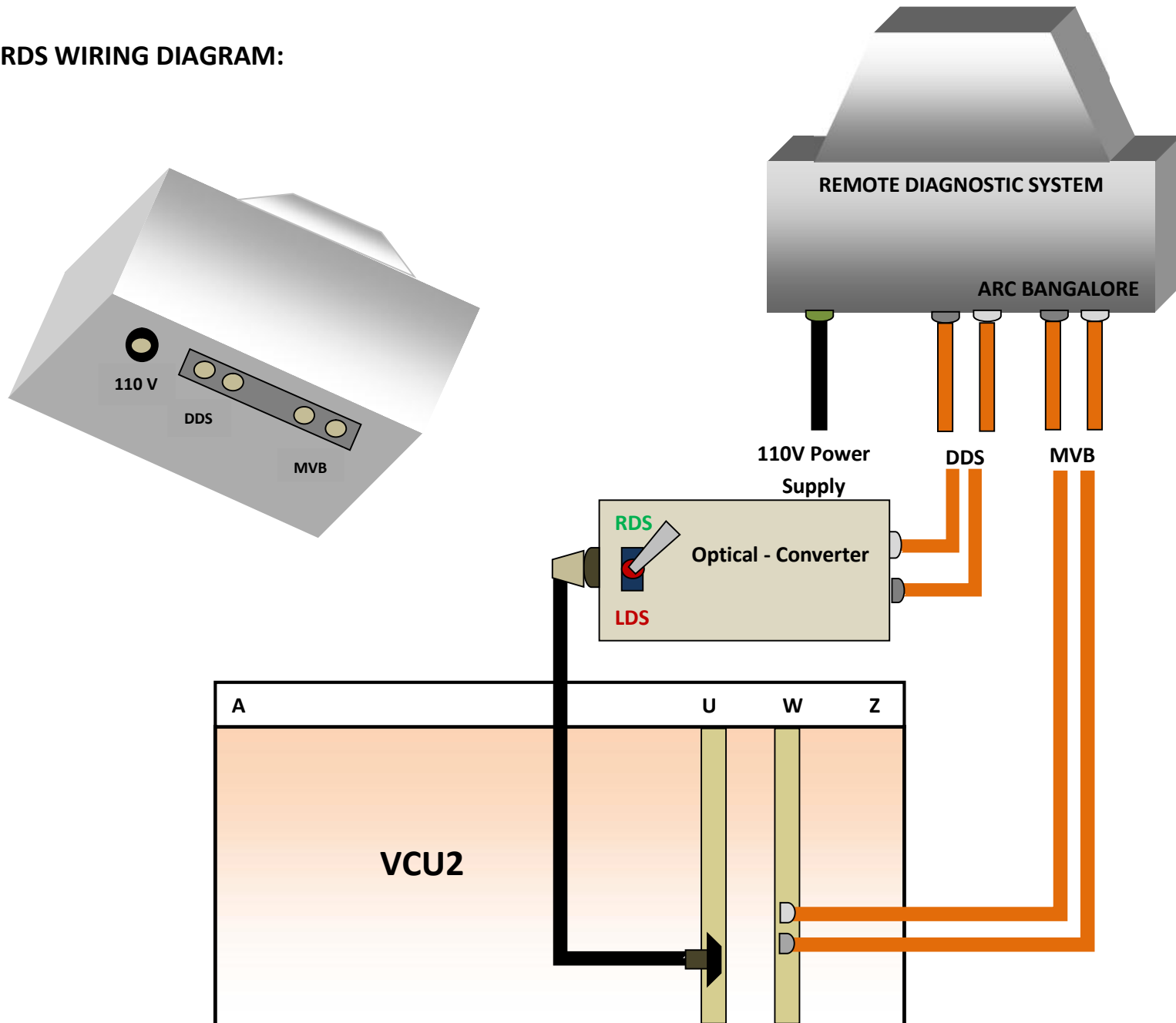
### 1.0 INTRODUCTION

The Remote Diagnostic system collects the status of the locomotive (**MVB** variables); faults developed in a running locomotive and transmit to the base station server (**Remote Server**) on real time on a wireless network along with the location of the loco. The equipment continuously polls the internal status of the locomotive and upon generation of any faults or system generated alerts, the same is captured and sent to base server. The equipment is MVB based which gets connected to the **WAP5/ WAP7/ WAG9/9H** class of locomotives running in Indian Railways. The function of the equipment can be extended to cater to any type of rolling stock. There is an associated roof mounted unit which houses multiple network interfacing devices (both **GSM & CDMA** each) and a **GPS** receiver. Many process variables of the locomotive can be captured through MVB and transmitted to base station.

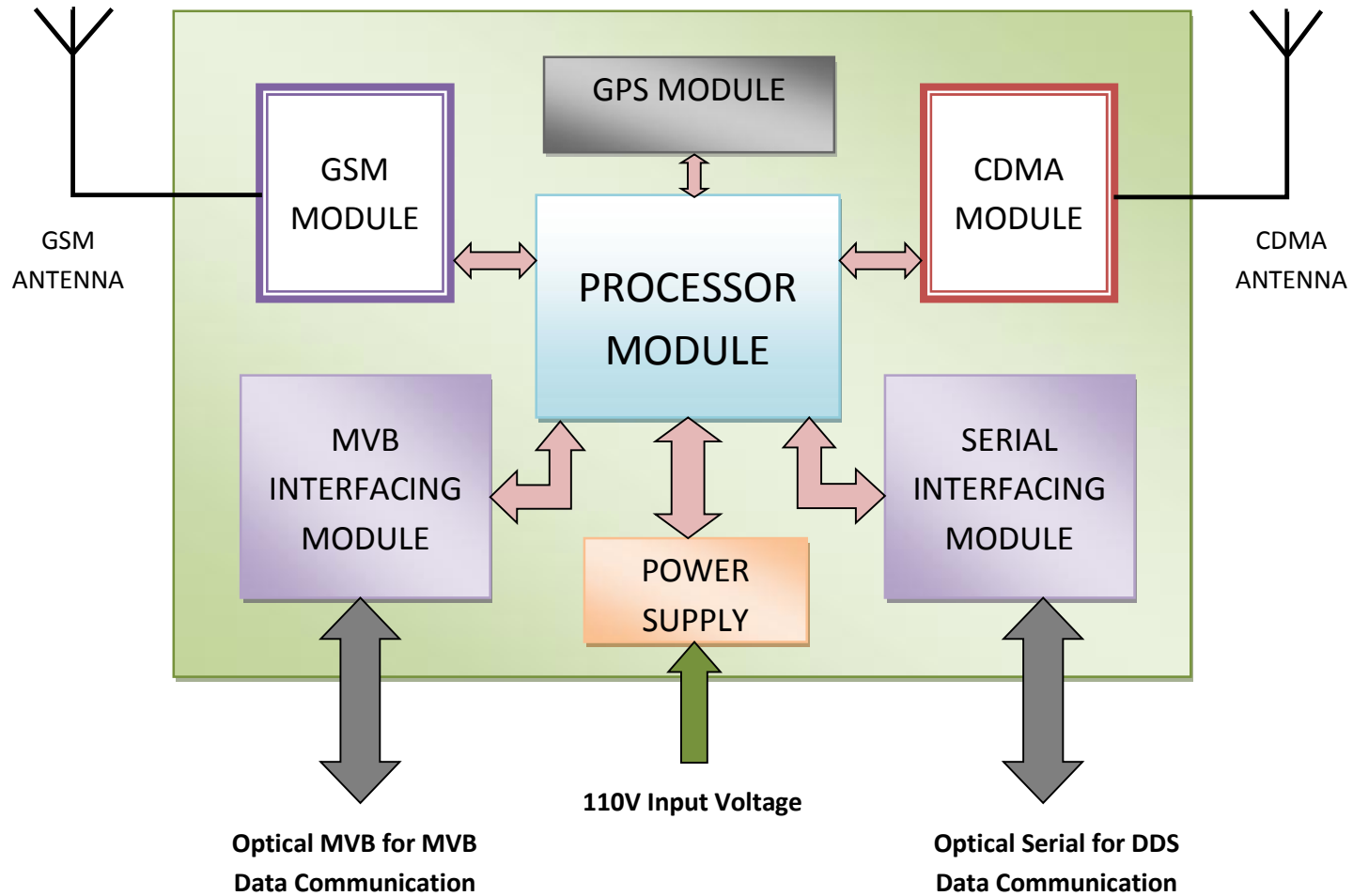
The user can view the status of locomotive by logging on to [www.irfleetmonitor.in](http://www.irfleetmonitor.in)



1.1 RDS WIRING DIAGRAM:




1.2 BLOCK DIAGRAM:



2.0 LOGIN PAGE

## Remote Diagnostic System

Type	Shed	Date	Time	Panto	VCB	Speed	VCAT (kV)	VBAT (Volts)	TE/BE (kN)	Isolation	Nearest Station	Map
WAP-7	HWH	12-05-14	17:25:12	UP	ON	0	24	110	0	NO	Vijayawada	<a href="#">Click</a>
WAP-7	LGD	12-05-14	15:06:03	UP	ON	0	26	111	0	NO	Uppal	<a href="#">Click</a>
WAP-7	LGD	12-05-14	18:21:08	UP	ON	29	24	111	33	YES	Ralapet	<a href="#">Click</a>
WAP-7	LGD	12-05-14	18:24:05	UP	ON	0	26	111	0	NO	<div style="border: 1px solid black; padding: 2px;"> <span>SS01</span> <span>SS02</span> <span>SS03</span> <span>SS04</span> <span>SS05</span>  <span>SS06</span> <span>SS07</span> <span>SS08</span> <span>SS09</span> <span>SS10</span>  <span>SS11</span> <span>SS12</span> <span>SS13</span> <span>SS14</span> <span>SS15</span>  <span>SS16</span> <span>SS17</span> <span>SS18</span> <span>SS19</span> </div>	
WAP-7	GZB	21-02-14	12:28:37	UP	ON	11	24	110	23	NO		
WAP-7	LGD	12-05-14	18:10:42	DOWN	OFF	0	0	0	0	NO		
WAP-7	LGD	21-02-14	10:48:45	UP	ON	8	22	111	0	NO		
WAP-7	LGD	12-05-14	18:10:42	DOWN	OFF	0	0	0	0	NO		
<p><b>Complete Loco Information</b>                  Information regarding DDS, High Voltage, Temperature, Software Version, Isolation etc are displayed.</p>											Malkajgiri	<a href="#">Click</a>



Indian Railways Fleet Monitoring

USER ID

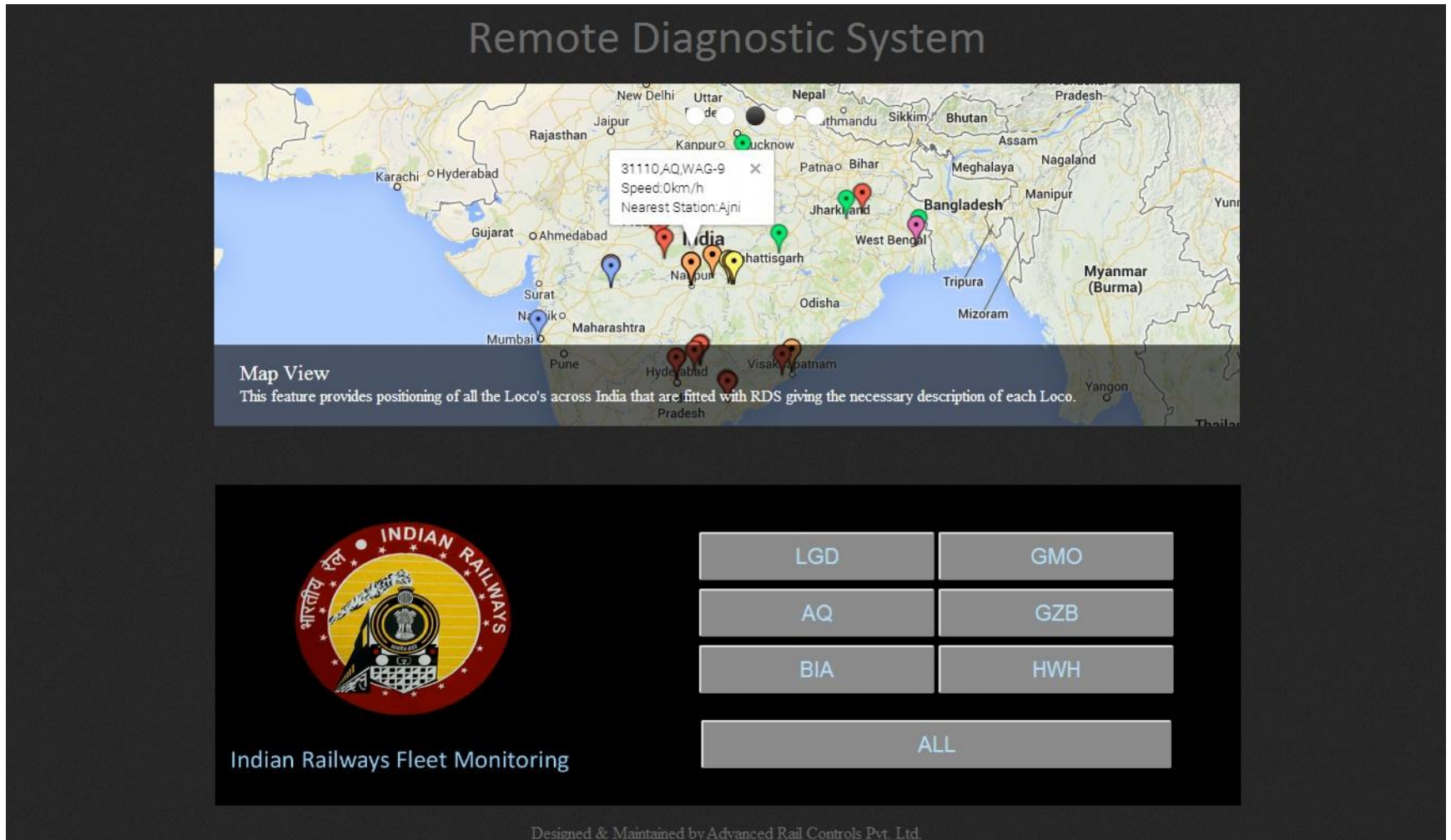
PASSWORD

[Sign In](#) [Sign Up](#)

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Login page has User Id and password fields which have to be entered. On clicking Sign In button with the correct User Id and Password, the page gets redirected to **SHED SELECTION** page.  
 On clicking Sign Up link, page gets redirected to **REGISTER** page where personal registration can be done.

2.1 SHED SELECTION



Here on clicking the required shed, page gets redirected to default page with selected shed details.

2.2 THREE DIFFERENT THEMES

Three different themes are provided to let user view rest of the contents from these themes of his choice.

BLACK DIAMOND

**Indian Railways Fleet Monitoring**

Home | Map View | Real Time Data | Historic Data | DD 3 | Settings | Admin

**Remote Diagnostic System** Total RDS Loco's: 40

SL.No	Status	Loco	Type	Shed	Date	Time	Point	VCB	Speed	VCAT (kV)	VBAT (Volts)	TE/BE (kN)	Isr	Nearest Station	Map
1	●	30205	WAP-7	HWH	08-04-14	14:32:09	UP	OFF	0	25	99	0	NO	Liluah	Click
2	●	30206	WAP-7	BIA	22-07-14	11:57:45	UP	ON	0	27	110	0	NO	Bilaspur	Click
3	●	30237	WAP-7	LGD	21-07-14	13:57:23	UP	ON	0	25	111	0	NO	Chandernager	Click
4	●	30239	WAP-7	LGD	22-07-14	06:46:31	UP	OFF	0	0	99	0	NO	Visakhapatnam	Click
5	●	30240	WAP-7	LGD	22-07-14	11:33:34	UP	ON	105	25	110	151	NO	Vempalli	Click
6	●	30243	WAP-7	GZB	22-07-14	11:27:34	DOWN	OFF	0	0	99	0	NO	Ghaziabad	Click
7	●	30250	WAP-7	LGD	29-06-14	04:42:41	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
8	●	30252	WAP-7	GZB	22-07-14	11:59:48	UP	ON	0	23	110	0	NO	Sasidah Main	Click
9	●	30253	WAP-7	LGD	04-06-14	22:28:58	UP	ON	110	26	110	67	NO	Pindia	Click
10	●	30254	WAP-7	GZB	23-06-14	19:43:30	DOWN	OFF	0	0	0	0	NO	Bhopal	Click
11	●	30256	WAP-7	GZB	22-07-14	11:57:31	UP	ON	133	26	111	43	NO	Paraj	Click
12	●	30258	WAP-7	LGD	22-07-14	11:28:06	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
13	●	30259	WAP-7	LGD	22-07-14	11:57:01	UP	ON	102	26	111	157	NO	Ghanapur	Click
14	●	30260	WAP-7	LGD	22-07-14	11:59:18	UP	ON	93	26	111	163	NO	Hinganghat	Click
15	●	30261	WAP-7	LGD	22-07-14	11:58:33	UP	ON	92	25	111	42	NO	Pandhapalli	Click
16	●	30262	WAP-7	LGD	22-07-14	11:57:18	UP	ON	0	24	110	0	NO	Visakhapatnam	Click
17	●	30263	WAP-7	AQ	15-07-14	11:48:33	UP	ON	3	24	112	2	NO	VidyaVihar	Click
18	●	30264	WAP-7	AQ	22-07-14	11:37:33	DOWN	OFF	0	0	100	0	NO	Ajni	Click
19	●	30271	WAP-7	LGD	22-07-14	11:52:39	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
20	●	30272	WAP-7	LGD	21-07-14	23:02:40	UP	OFF	0	25	100	0	NO	Hyderabad	Click

1 2

**Filter** | Export To | What's New

Loco:  Type:  Shed:

From:  To:

**Latest DD 3 Alerts**

- + 30271 FLOI:0091-Power on of MCE
- + 30264 FLOI:0092-ACP/Train Pat
- + 30264 FLOI:0091-Power on of

**Legend** | Download

- Loco In Motion
- VCB Off
- Speed-0 kmph
- No Data For More Than 3 Hours

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DURONTO GREEN



Remote Diagnostic System Total RDS Loco's: 40

Sl.No	Status	Loco	Type	Shed	Date	Time	Panto	VCB	Speed	VCAT (kV)	VBAT (Volts)	TE/SE (kWh)	Iso	Nearest Station	Map
1	●	30205	WAP-7	HWH	08-04-14	14:32:08	UP	OFF	0	25	99	0	NO	Liluah	<a href="#">Click</a>
2	●	30206	WAP-7	BIA	22-07-14	11:57:45	UP	ON	0	27	110	0	NO	Bilespur	<a href="#">Click</a>
3	●	30237	WAP-7	LGD	21-07-14	13:57:23	UP	ON	0	25	111	0	NO	Chandenagar	<a href="#">Click</a>
4	●	30238	WAP-7	LGD	22-07-14	06:46:31	UP	OFF	0	0	99	0	NO	Visekhatpatnam	<a href="#">Click</a>
5	●	30240	WAP-7	LGD	22-07-14	11:35:54	UP	ON	105	25	110	131	NO	Vempalli	<a href="#">Click</a>
6	●	30243	WAP-7	GZB	22-07-14	11:27:54	DOWN	OFF	0	0	99	0	NO	Ghaziabad	<a href="#">Click</a>
7	●	30250	WAP-7	LGD	29-08-14	04:42:41	DOWN	OFF	0	0	0	0	NO	Hezret Nizamuddin	<a href="#">Click</a>
8	●	30252	WAP-7	GZB	22-07-14	11:55:21	UP	ON	0	24	110	0	NO	Seeloh Main	<a href="#">Click</a>
9	●	30253	WAP-7	LGD	04-06-14	22:28:58	UP	ON	110	26	110	67	NO	Pindia	<a href="#">Click</a>
10	●	30254	WAP-7	GZB	23-08-14	19:43:30	DOWN	OFF	0	0	0	0	NO	Bhopal	<a href="#">Click</a>
11	●	30256	WAP-7	GZB	22-07-14	11:57:31	UP	ON	133	26	111	43	NO	Parsj	<a href="#">Click</a>
12	●	30258	WAP-7	LGD	22-07-14	11:28:06	DOWN	OFF	0	0	0	0	NO	Hezret Nizamuddin	<a href="#">Click</a>
13	●	30259	WAP-7	LGD	22-07-14	11:51:14	UP	ON	119	25	109	66	NO	Ghanapur	<a href="#">Click</a>
14	●	30280	WAP-7	LGD	22-07-14	11:57:11	UP	ON	64	26	111	15	NO	Hinganghet	<a href="#">Click</a>
15	●	30261	WAP-7	LGD	22-07-14	11:56:22	UP	ON	111	26	111	-36	NO	Pandisepali	<a href="#">Click</a>
16	●	30262	WAP-7	LGD	22-07-14	11:57:18	UP	ON	0	24	110	0	NO	Visekhatpatnam	<a href="#">Click</a>
17	●	30263	WAP-7	AQ	15-07-14	11:48:35	UP	ON	3	24	112	2	NO	Vidayvihar	<a href="#">Click</a>
18	●	30264	WAP-7	AQ	22-07-14	11:37:53	DOWN	OFF	0	0	100	0	NO	Ajni	<a href="#">Click</a>
19	●	30271	WAP-7	LGD	22-07-14	11:52:39	DOWN	OFF	0	0	0	0	NO	Hezret Nizamuddin	<a href="#">Click</a>
20	●	30272	WAP-7	LGD	21-07-14	23:02:40	UP	OFF	0	25	100	0	NO	Hyderabad	<a href="#">Click</a>

Filter Export To What's New

Loco: Type: Shed:

ALL ALL ALL

From: To:

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Latest DD's Alerts

- + 30264 P01:0091-Power on of MCE
- + 30252 P01:0091-Power on of MCE
- + 30274 P01:0037-S/K Interlock -

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Legend Downloads

- Loco In Motion
- VCB OFF
- Speed-0 kmph
- No Data For More Than 3 Hours

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SHATABDI BLUE

## Indian Railways Fleet Monitoring

Home
Map View
Real Time Data
Historic Data
DDs
Settings
Admin

### Remote Diagnostic System Total RDB Loco's: 40

SL.No	Status	Loco	Type	Shed	Date	Time	Posn	VCB	Speed	VCAT (kV)	VBAT (Volts)	TE/BE (kW)	Isr	Nearest Station	Map
1	●	30205	WAP-7	HWH	08-04-14	14:32:09	UP	OFF	0	25	99	0	NO	Liluah	Click
2	●	30206	WAP-7	BIA	22-07-14	11:53:42	UP	ON	0	27	111	0	NO	Bilespur	Click
3	●	30237	WAP-7	LGD	21-07-14	13:37:23	UP	ON	0	25	111	0	NO	Chandanager	Click
4	●	30239	WAP-7	LGD	22-07-14	06:46:31	UP	OFF	0	0	99	0	NO	Visakhapatnam	Click
5	●	30240	WAP-7	LGD	22-07-14	11:35:34	UP	ON	105	25	110	151	NO	Vempalli	Click
6	●	30243	WAP-7	GZB	22-07-14	11:27:34	DOWN	OFF	0	0	99	0	NO	Ghaziabad	Click
7	●	30250	WAP-7	LGD	29-06-14	04:42:41	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
8	●	30252	WAP-7	GZB	22-07-14	11:53:21	UP	ON	0	24	110	0	NO	Seeloh Main	Click
9	●	30253	WAP-7	LGD	04-06-14	22:28:38	UP	ON	110	26	110	67	NO	Pindol	Click
10	●	30254	WAP-7	GZB	23-06-14	19:43:30	DOWN	OFF	0	0	0	0	NO	Shopal	Click
11	●	30256	WAP-7	GZB	22-07-14	11:57:31	UP	ON	133	26	111	43	NO	Ferej	Click
12	●	30258	WAP-7	LGD	22-07-14	11:28:06	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
13	●	30259	WAP-7	LGD	22-07-14	11:51:14	UP	ON	119	25	109	66	NO	Ghanapur	Click
14	●	30260	WAP-7	LGD	22-07-14	11:57:11	UP	ON	64	26	111	15	NO	Hinganghat	Click
15	●	30261	WAP-7	LGD	22-07-14	11:56:22	UP	ON	111	26	111	-36	NO	Panditapatti	Click
16	●	30262	WAP-7	LGD	22-07-14	11:57:18	UP	ON	0	24	110	0	NO	Visakhapatnam	Click
17	●	30263	WAP-7	AQ	15-07-14	11:48:35	UP	ON	3	24	112	2	NO	Vidyevihar	Click
18	●	30264	WAP-7	AQ	22-07-14	11:37:33	DOWN	OFF	0	0	100	0	NO	Ajni	Click
19	●	30271	WAP-7	LGD	22-07-14	11:52:39	DOWN	OFF	0	0	0	0	NO	Hazrat Nizamuddin	Click
20	●	30272	WAP-7	LGD	21-07-14	23:02:40	UP	OFF	0	25	100	0	NO	Hydrabad	Click

**Filter**    Export To    What's New

Loco:     Type:     Shed:

From:     To:

---

**Latest DDs Alerts**

+31026 RUD1.0092-ACF/Train Part

+30264 RUD1.0091-Power on of VCB

+30252 RUD1.0091-Power on of

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**Legend**    Downloads

- Loco in Motion
- VCB Off
- Speed-0 kmph
- No Data For More Than 3 Hours

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3.0 HOME PAGE

Links



Remote Diagnostic System

Sl.No	Status	Loco	Type	Shed	Date	Time	Panto	VCB	Speed	VCAT (kV)	VBAT (Volts)	TE/SE (kV)	Iso	Nearest Station	Map
1	●	30205	WAP-7	HWH	08-04-14	14:32:09	UP	OFF	0	25	99	0	NO	Ulugh	<a href="#">Click</a>
2	●	30206	WAP-7	BIA	17-07-14	14:42:38	UP	ON	0	25	110	0	NO	Durg	<a href="#">Click</a>
3	●	30237	WAP-7	LGD	16-07-14	00:26:03	DOWN	OFF	0	0	98	0	NO	Vijaywada	<a href="#">Click</a>
4	●	30239	WAP-7	LGD	17-07-14	14:36:53	UP	ON	107	25	118	0	NO	Mallemedugu	<a href="#">Click</a>
5	●	30240	WAP-7	LGD	17-07-14	14:39:10	UP	ON	0	25	111	90	NO	1KM	<a href="#">Click</a>
6	●	30243	WAP-7	GZB	17-07-14	14:34:08	DOWN	OFF	0	0	99	0	NO	Sealdah Main	<a href="#">Click</a>
7	●	30250	WAP-7	LGD	29-06-14	04:42:41	DOWN	OFF	0	0	0	0	NO	Hazret Nizamuddin	<a href="#">Click</a>
8	●	30252	WAP-7	GZB	17-07-14	13:28:46	DOWN	OFF	0	0	99	0	NO	Ulugh	<a href="#">Click</a>
9	●	30253	WAP-7	LGD	04-06-14	22:28:58	UP	ON	110	26	110	67	NO	Pindol	<a href="#">Click</a>
10	●	30254	WAP-7	GZB	23-06-14	19:43:30	DOWN	OFF	0	0	0	0	NO	Shopal	<a href="#">Click</a>
11	●	30256	WAP-7	GZB	17-07-14	14:39:28	UP	ON	0	22	111	0	NO	Hazret Nizamuddin	<a href="#">Click</a>
12	●	30258	WAP-7	LGD	17-07-14	13:52:40	DOWN	OFF	0	0	0	0	NO	Hyderabad	<a href="#">Click</a>
13	●	30259	WAP-7	LGD	17-07-14	14:36:27	UP	ON	112	22	110	141	NO	Hetampur	<a href="#">Click</a>
14	●	30260	WAP-7	LGD	17-07-14	14:09:09	UP	ON	0	21	108	0	NO	New Delhi	<a href="#">Click</a>
15	●	30261	WAP-7	LGD	17-07-14	13:49:00	UP	ON	0	23	110	0	NO	Hyderabad	<a href="#">Click</a>
16	●	30262	WAP-7	LGD	17-07-14	08:49:29	DOWN	OFF	0	0	100	0	NO	Chennai Central	<a href="#">Click</a>
17	●	30263	WAP-7	AQ	15-07-14	11:48:33	UP	ON	3	24	112	2	NO	Vijayvihar	<a href="#">Click</a>
18	●	30264	WAP-7	AQ	17-07-14	13:44:01	DOWN	OFF	0	0	99	0	YES	Ajni	<a href="#">Click</a>
19	●	30271	WAP-7	LGD	17-07-14	14:37:46	DOWN	OFF	0	0	0	0	NO	SS01 SS02 SS03 SS04 SS05 SS06 SS07 SS08 SS09 SS10 SS11 SS12 SS13 SS14 SS15 SS16 SS17 SS18 SS19	<a href="#">Click</a>
20	●	30272	WAP-7	LGD	17-07-14	14:41:16	UP	ON	13	25	110	43	NO		<a href="#">Click</a>

Filter Export To View & New

Loco: ALL, Type: ALL, Shed: ALL

To: July, 2014

Calendar: Su Mo Tu We Th Fr Sa

Today: July 17, 2014

Downloads

Speed-0 kmph

No Data For More Than 3 Hours

Dropdown List

Calendar

Click To View Location of Single Loco

Tool Tip

Home (Default) Page has

Links namely Home, Map View, Real Time Data, Historic Data, DDS, Settings and Admin.

On clicking Home link, the page gets redirected to **HOME** page.

On clicking Map View link, the page gets redirected to **MAP VIEW** page.

On mouse over the **REAL TIME DATA** link, dropdown with the following real time links appear from which required link can be clicked:

- HIGH VOLTAGE CIRCUIT**
- TRACTION CONVERTER**
- TRACTION MOTORS**
- AUXILIARY CONVERTER**
- AUXILIARY MACHINES**
- TRACTION/BRAKING**
- TEMPERATURE**
- PRESSURE**
- SUBSYSTEM**
- ENERGY**
- S/W VERSION**
- MAX VALUE**

On clicking Historic Data link, the page gets redirected to **HISTORIC DATA** page.

On clicking DDS button, the page gets redirected to **DDS** page and on mouse over the DDS link, a dropdown with the following links appear from which required link can be clicked:

- DDS**
- GLOBAL HITLIST**
- DDS ANALYSIS**

On mouse over the **SETTING** link, dropdown with the following links appear from which required link can be clicked:

**PERSONALIZE**

**THEMES -> SHATABDI BLUE, DURONTO GREEN, BLACK DIAMOND.**

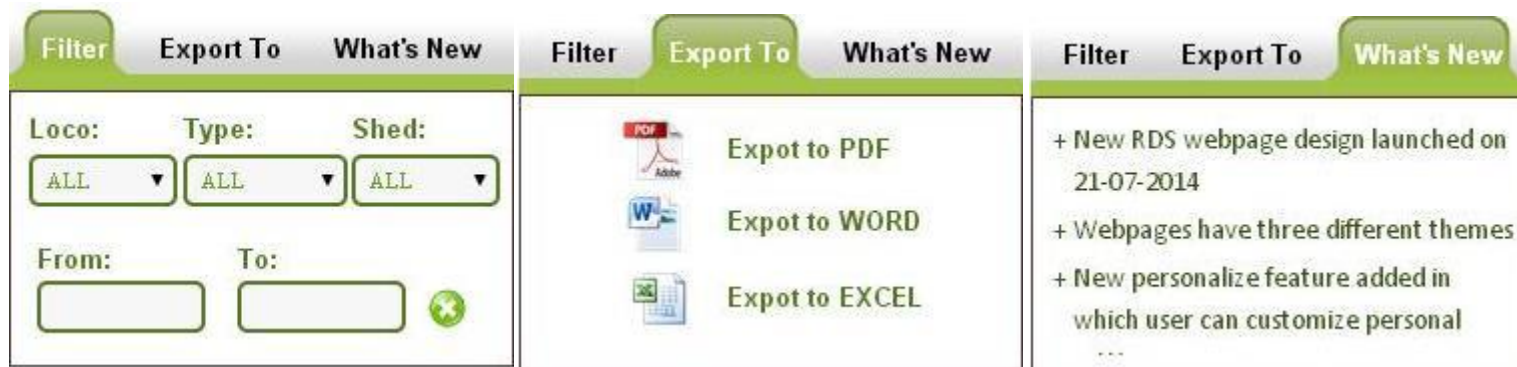
**LOGOUT**

On clicking Admin link, the page gets redirected to **ADMIN** page.

When the mouse hovers over the Isolation field, small window (tooltip) appears indicating which subsystem is isolated, also for nearest station field tool tip appears indicating the distance between loco and its nearest station in km. Each row in the table gets highlighted when mouse is over the row.

**THREE TABS**

All the pages have three tabs:



**FIRST TAB** contains three panels->**FILTER** panel contains the Loco Dropdown List which has loco list, Type Dropdown List which has type list, Shed Dropdown List which has shed list and two Date picker fields when clicked displays a calendar from which from and to dates can be selected. **EXPORT TO** panel contains three Image buttons: PDF which when clicked downloads the file in pdf format, WORD which when clicked downloads the file in word format, and EXCEL which when clicked downloads the file in excel format. **WHAT'S NEW** panel contains the latest updates in RDS WebPages.

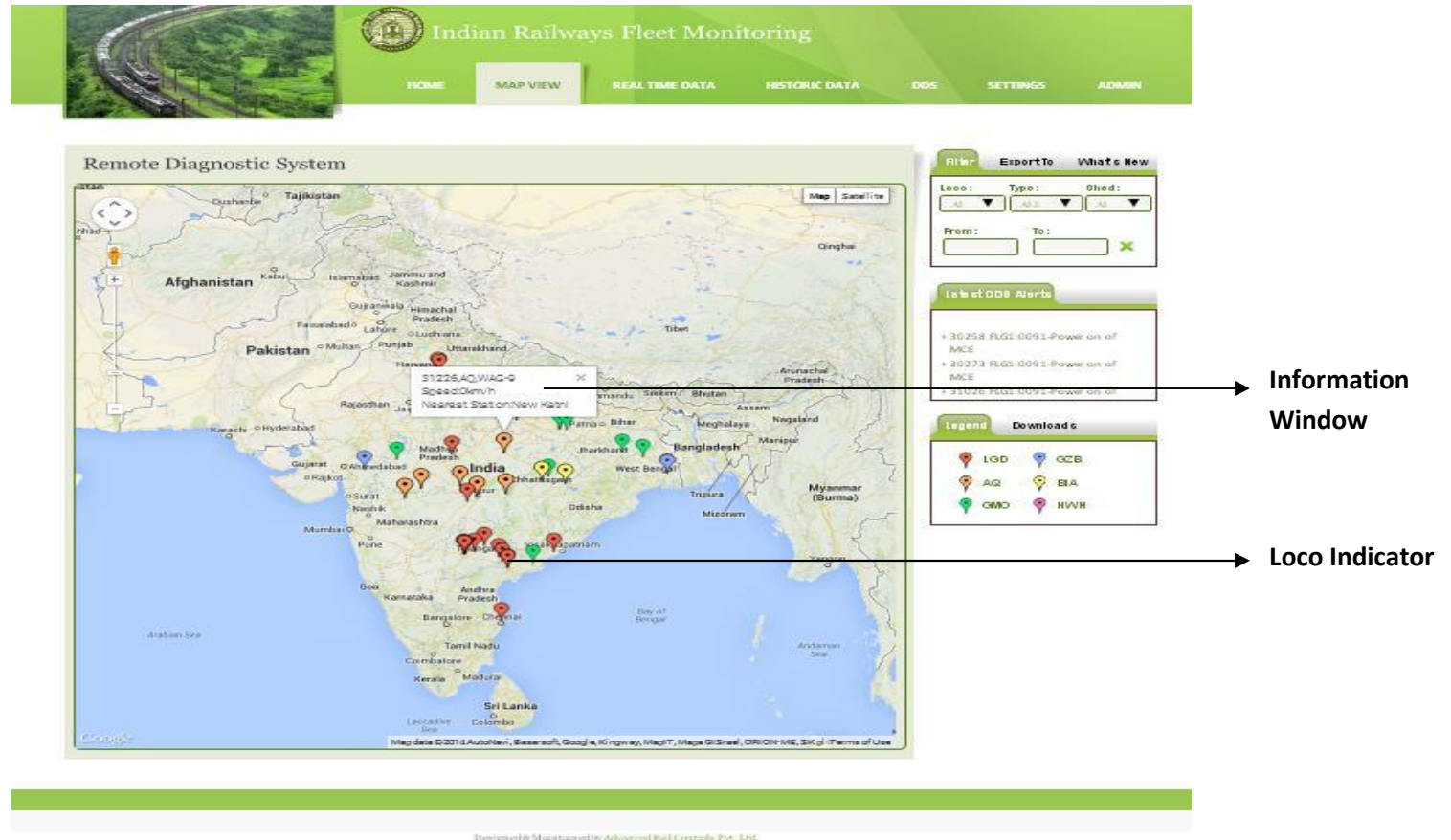


**SECOND TAB** contains one panel->**LATEST DDS ALERTS** panel contains latest 5 DDS alert messages.



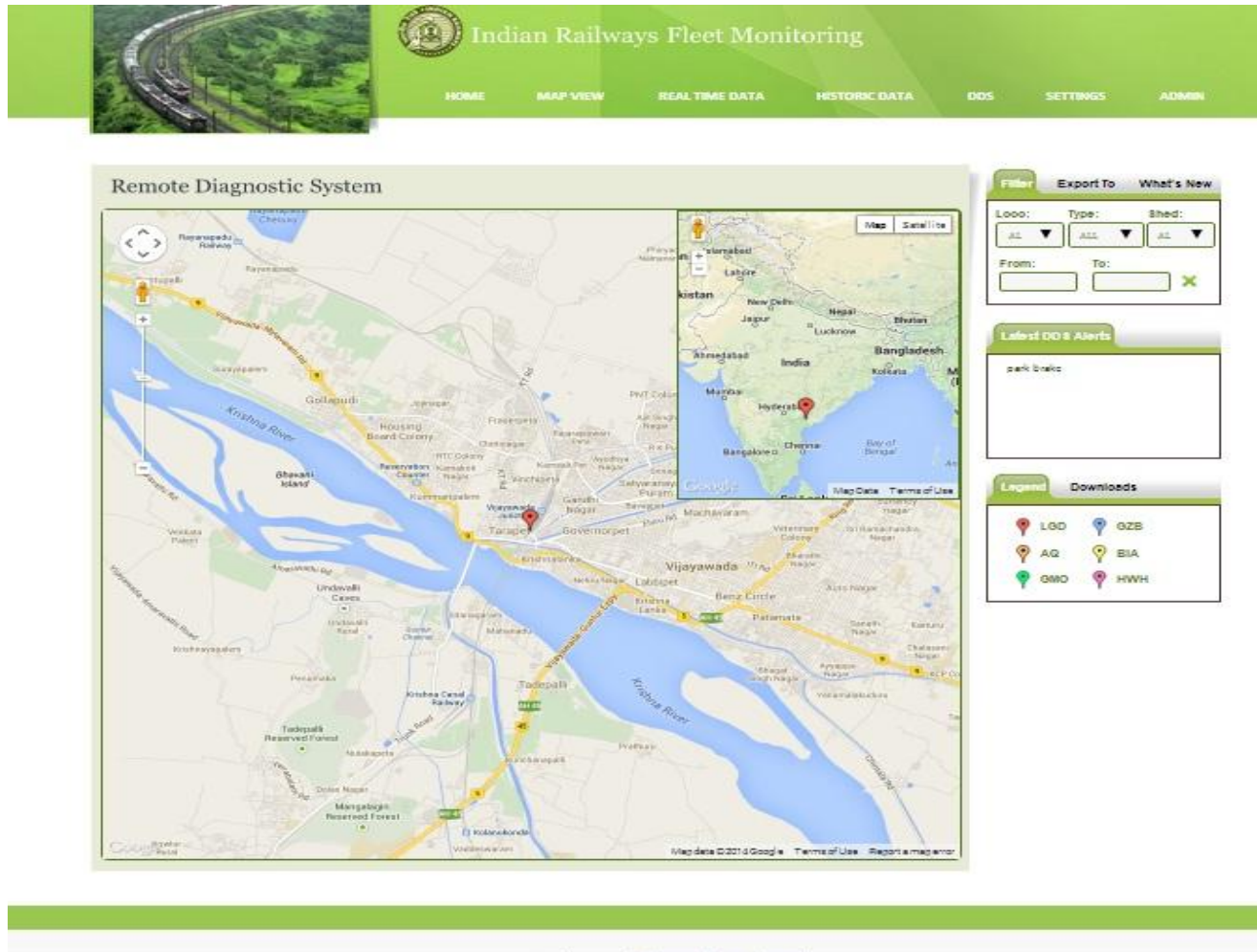
**THIRD TAB** contains two panels->**LEGEND** panel contain images that indicate status of the loco. Moving green image indicates that Loco is in motion. Red image indicates that VCB is OFF. Green image indicates that speed is 0kmph and Grey image indicates that there is no data for more than three hours for loco. **DOWNLOADS** panel contains user manual link from which user manual for RDS webpage can be downloaded and viewed in PDF format, Android App link which redirects to the RDS Android application.

3.1 MAPVIEW PAGE



Map View Page contains map which displays the position of every loco. When the mouse is clicked over the loco indicator, small information window appears with its respective loco, speed and nearest station details. When mouse is over the loco indicator, a tooltip with its loco number appears. **LEGEND** panel of third tab contains images that indicate which shed each loco indicator belongs to. Red indicates LGD. Blue indicates GZB. Orange indicates AQ. Yellow indicates BIA. GREEN indicates GMO. Pink indicates HWH.

LOCATION MAPVIEW PAGE



Location Map View Page has map which displays the position of selected loco from the Home page.



3.2 REAL TIME DATA

**Indian Railways Fleet Monitoring**

HOME    MAP VIEW    **REAL TIME DATA**    HISTORIC DATA    DDB    SETTINGS    ADMIN

**Remote Diagnostic System** Total RDS Loco's: 40

SL.No	Status	Loco	Type	Shed	Date	Time	Panto	VCB	Speed	Nearest Station	Map
1	●	90205	WAP-7	HWH	08-04-14	14:32:08	UP	OFF	0	Lituh	<a href="#">Click</a>
2	●	90206	WAP-7	BIA	22-07-14	12:27:18	UP	ON	0	Bilaspur	<a href="#">Click</a>
3	●	90237	WAP-7	USD	21-07-14	18:57:23	UP	ON	0	Chandernagor	<a href="#">Click</a>
4	●	90239	WAP-7	USD	22-07-14	06:46:31	UP	OFF	0	Vishakhapatnam	<a href="#">Click</a>
5	●	90240	WAP-7	USD	22-07-14	12:29:48	UP	ON	0	Baharichah	<a href="#">Click</a>
6	●	90243	WAP-7	GTB	22-07-14	11:27:54	DOWN	OFF	0	Ghaziabad	<a href="#">Click</a>
7	●	90250	WAP-7	USD	28-06-14	04:42:41	DOWN	OFF	0	Hazrat Nizamuddin	<a href="#">Click</a>
8	●	90252	WAP-7	GTB	22-07-14	12:24:55	UP	ON	0	SaidahMoin	<a href="#">Click</a>
9	●	90258	WAP-7	USD	04-06-14	22:28:58	UP	ON	110	Pindoli	<a href="#">Click</a>
10	●	90254	WAP-7	GTB	28-06-14	18:48:30	DOWN	OFF	0	Bhopal	<a href="#">Click</a>
11	●	90256	WAP-7	GTB	22-07-14	12:29:26	UP	ON	83	Saktigarh	<a href="#">Click</a>
12	●	90253	WAP-7	USD	22-07-14	12:22:52	DOWN	OFF	0	Hazrat Nizamuddin	<a href="#">Click</a>
13	●	90259	WAP-7	USD	22-07-14	12:25:56	UP	ON	90	Wazirpur	<a href="#">Click</a>
14	●	90260	WAP-7	USD	22-07-14	12:29:01	UP	ON	45	Majri	<a href="#">Click</a>
15	●	90261	WAP-7	USD	22-07-14	12:30:08	UP	ON	2	Madhira	<a href="#">Click</a>
16	●	90262	WAP-7	USD	22-07-14	12:27:45	UP	ON	10	Vishakhapatnam	<a href="#">Click</a>
17	●	90263	WAP-7	AQ	15-07-14	11:48:35	UP	ON	3	VidyaVihar	<a href="#">Click</a>
18	●	90264	WAP-7	AQ	22-07-14	11:37:58	DOWN	OFF	0	Ajni	<a href="#">Click</a>
19	●	90271	WAP-7	USD	22-07-14	12:26:10	DOWN	OFF	0	Hazrat Nizamuddin	<a href="#">Click</a>
20	●	90272	WAP-7	USD	21-07-14	23:02:40	UP	OFF	0	Hydrabad	<a href="#">Click</a>

1 2

HIGH VOLTAGE CIRCUIT  
 TRACTION CONVERTER  
 TRACTION MOTORS  
 AUXILIARY CONVERTER  
 AUXILIARY MACHINES  
 TRACTION/BRAISING  
 TEMPERATURE  
 PRESSURE  
 SUBSYSTEM  
 ENERGY  
 S/W VERSION  
 MAX. VALUE

Loco:  Type:  Shed:

From:  To:

**Latest DDB Alerts**

- + 31073 SGG 0070-Power reduction line voltage
- + 31026 PGL 0092-ACP/Train Part

**Legend**    **Downloads**

- Loco In Motion
- VCB Off
- Speed-0 kmph
- No Data For More Than 8 Hours

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Real Time Data has links such as:

HighVoltageCircuit	On clicking HighVoltageCircuitlink, the page gets redirected to <b>HighVoltageCircuitPage</b>
Traction Converter	On clicking Traction Converterlink, the page gets redirected to <b>Traction Converter Page</b>
Traction Motors	On clicking Traction Motorslink, the page gets redirected to <b>Traction MotorsPage</b>
Auxiliary Converter	On clicking Auxiliary Converterlink, the page gets redirected to <b>Auxiliary Converter Page</b>
Auxiliary Machines	On clicking Auxiliary Machineslink, the page gets redirected to <b>Auxiliary Machines Page</b>
Traction/Braking	On clicking Traction/Brakinglink, the page gets redirected to <b>Traction/Braking Page</b>
Temperature	On clicking Temperaturelink, the page gets redirected to <b>Temperature Page</b>
Pressure	On clicking Pressurelink, the page gets redirected to <b>Pressure Page</b>
Subsystem	On clicking SubSystemlink, the page gets redirected to <b>SubSystem Page</b>
Energy	On clicking Energylink, the page gets redirected to <b>Energy Page</b>
S/W Version	On clicking S/W Version link, the page gets redirected to <b>S/W Version Page</b>
Max Value	On clicking Max Valuelink the page gets redirected to <b>Max Value Page</b>

REAL TIME DATA PARAMETERS

High Voltage Circuit	Traction Converter	Traction Motors	Auxiliary Converter	Auxiliary Machines	Traction /Braking	Temperature	Pressure	SubSystem	Energy	S/W Version	Max Value
Loco	Loco	Loco	Loco	Loco	Loco	Loco	Loco	Loco	Loco	Loco	Loco
Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type	Type
Shed	Shed	Shed	Shed	Shed	Shed	Shed	Shed	Shed	Shed	Shed	Shed
Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date	Date
Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
Panto	Panto	Panto	Panto	Panto	Panto	Panto	Panto	Panto	Panto	Panto	Panto
VCB	VCB	VCB	VCB	VCB	VCB	VCB	VCB	VCB	VCB	VCB	VCB
Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)	Speed (kmph)
FLG Node	Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node	FLG Node
Primary Current(A)	Input Contactor	DC Link Voltage (V)	Aux. Voltage (V)	Compressor	Active CAB	Transformer Oil Temperature (°C)	Transformer Oil Pressure (bar)	SS01-SS19	TE/BE Demand (kN)	FLG1	Catenary Voltage (V)
Primary Voltage(kV)	Pre Charging Contactor	Speed (rpm)	Aux. Current (A)	Oil Cooling Blower	Direction	Converter Oil Temperature (°C)	Converter Oil Pressure (bar)		Energy Consumed (kWh)	FLG2	Line Frequency (Hz)
Input Power(kW)	Oil Pressure (bar)	Temperature (°C)	DC Link Voltage (V)	Transformer Oil Pump	Throttle	Motor Temperature (°C)	MR Pressure (kg/cm2)		Energy Regenerated (kWh)	HBB1	Motor Temperature (°C)

Line Frequency (Hz)	Oil Temperature (°C)		DC Link Current (A)	Traction Motor Blower	TE/BE Demand (kN)		BP Pressure Demand (kg/cm2)		Regeneration Ratio	HBB2	Transformer Oil Temperature (°C)
TE/BE Demand (kN)	Ventilation Level		Output Voltage (V)	Machine Room Blower	TE/BE Actual (kN)		BC Pressure			STB1	Converter Oil Temperature (°C)
TE/BE Actual (kN)			Output Frequency (Hz)	Scavenge Blower	Pneumatic Brake Demand (%)					STB2	TE/BE Demand (kN)
			Grouping	BUR Status	Constant Speed					SLG1	TE/BE Actual (kN)
					Vigilance Brake					SLG2	

3.3 HISTORIC DATA PAGE

Indian Railways Fleet Monitoring

HOME MAP VIEW REAL TIME DATA HISTORIC DATA DDS SETTINGS ADMIN

Remote Diagnostic System

All Real Time Signals

- Speed
- Panto
- VCB
- VCAT
- VBAT
- TE/BE
- Loco Brake
- Auto Brake
- Parking Brake
- FUG Node
- Primary Current
- Primary Voltage
- Input Power
- Line Frequency
- TE/BE Actual
- SUG1 Node
- SUG2 Node
- AUG1 Node
- AUG2 Node
- Input Contactor SR1
- Input Contactor SR2
- Pre Charging Contactor SR1
- Pre Charging Contactor SR2
- Oil Pressure SR1
- Oil Pressure SR2
- Oil Temperature SR1
- Oil Temperature SR2
- Ventilation Level SR1
- Ventilation Level SR2
- DC Link Voltage SR1
- DC Link Voltage SR2
- Speed Rogie-1 TM1

Selected Real Time Signals

- TE/BE
- Loco Brake
- Auto Brake

SELECT ANY 7 REAL TIME DATA

FILTER

Filter Export To What's New

Loco: Type: Shed:

AL ALL AL

From: To: +

Latest DD & Alerts

park brake

Legend Downloads

- Loco In Motion
- VCB Off
- Speed=0 kmph
- No Data For More Than 3 Hours

Checkbox

Button

Selected Real Time Signals

Selected Real Time Signals

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Historic Data Page contains various real time signal checkboxes which when ticked, appears along with a filter button. It has filter button which on clicking gets redirected to **FILTER** page. Only 15 Real Time Signals can be selected from the checkbox at once. If more than 15 Signals are selected, error message is displayed - "MAXIMUM LIMIT EXCEEDED!!!!!!!!!!".

It also has Checkbox List which contains REAL TIME SIGNALS such as:

Speed	Panto	VCB	VCAT	VBAT	TE/BE
Loco Brake	Auto Brake	Parking Brake	FLG Node	Primary Current	Primary Voltage
Input Power	Line Frequency	TE/BE Actual	SLG1 Node	SLG2 Node	ALG1 Node
ALG2 Node	Input Contactor SR1	Input Contactor SR2	Pre Charging Contactor SR1	Pre Charging Contactor SR2	Oil Pressure SR1
Oil Pressure SR2	DC Link Voltage SR1	Oil Temperature SR1	Oil Temperature SR2	Ventilation Level SR1	Compressor1
Speed Bogie-1 TM1	DC Link Voltage SR2	Speed Bogie-1 TM2	Speed Bogie-1 TM3	Ventilation Level SR2	Compressor2
Speed Bogie-2 TM1	Speed Bogie-2 TM2	Speed Bogie-2 TM3	Temperature Bogie-1 TM3	Temperature Bogie-1 TM1	BUR Status BUR1
Aux. Voltage	Aux. Current	DC Link Voltage BUR1	Temperature Bogie-2 TM1	Temperature Bogie-1 TM2	BURStatusBUR2
Output Current BUR1	Grouping 52/1	DC Link Voltage BUR2	Temperature Bogie-2 TM2	Traction Motor Blower1	BURStatusBUR3
Output Current BUR2	Grouping 52/2	DC Link Voltage BUR3	Temperature Bogie-2 TM3	Traction Motor Blower2	ActiveCAB
Output Current BUR3	Grouping 52/3	DC Link Current BUR1	Converter Oil Pump SR1	Machine Room Blower1	Direction
Output Voltage BUR1	Grouping 52/4	DC Link Current BUR2	Converter Oil Pump SR2	Machine Room Blower2	Constant Speed
Output Voltage BUR2	Grouping 52/5	DC Link Current BUR3	Transformer Oil Pump1	Transformer Oil Temperature TR1	Vigilance Brake
Output Voltage BUR3	ThrottlePosition	TE_Demand(Boolean)	Transformer Oil Pump2	Transformer Oil Temperature TR2	S/W VER_HBB2
Oil Cooling Blower1	AngleTransmitter	BE_Demand(Boolean)	PneumaticBrakeDemand	Transformer Oil Pressure SR1	S/W VER_STB1
Oil Cooling Blower2	Scavenge Blower MR1	Scavenge Blower TM1	BP Pressure Demand	Transformer Oil Pressure SR2	S/W VER_STB2
TE/BE_Dem_1/3	Scavenge Blower MR2	Scavenge Blower TM2	Energy Regenerated	S/W VER_FLG2	S/W VER_SLG1
TE/BE_Dem_2/3	MR Pressure	Energy Consumed	S/W VER_FLG1	S/W VER_HBB1	S/W VER_SLG2

FILTER PAGE

Indian Railways Fleet Monitoring

HOME MAP VIEW REAL TIME DATA HISTORIC DATA DDS SETTINGS ADMIN

### Remote Diagnostic System - Historic Data

SL.No	Loco	Type	Shed	Date	Time	Pantograph	VCB
1	31226	WAG-9	AQ	22-07-14	12:44:20	UP	ON
2	30299	WAP-7	USD	22-07-14	12:45:22	DOWN	OFF
3	30299	WAP-7	USD	22-07-14	12:45:22	DOWN	OFF
4	30260	WAP-7	USD	22-07-14	12:45:25	UP	ON
5	31089	WAG-9	AQ	22-07-14	12:48:58	UP	ON
6	31026	WAG-9	GMD	22-07-14	12:44:36	DOWN	OFF
7	31026	WAG-9	GMD	22-07-14	12:44:36	DOWN	OFF
8	30275	WAP-7	USD	22-07-14	12:42:30	DOWN	OFF
9	31268	WAG-9	GMD	22-07-14	12:44:11	UP	ON
10	30274	WAP-7	USD	22-07-14	12:44:14	UP	ON
11	30206	WAP-7	BIA	22-07-14	12:48:25	UP	ON
12	30240	WAP-7	USD	22-07-14	12:42:57	UP	ON
13	30276	WAP-7	USD	22-07-14	12:42:49	UP	ON
14	31279	WAG-9 H	BIA	22-07-14	12:48:16	UP	ON
15	30261	WAP-7	USD	22-07-14	12:42:29	UP	ON
16	30256	WAP-7	GZB	22-07-14	12:42:39	UP	ON
17	30273	WAP-7	USD	22-07-14	12:41:14	UP	ON
18	31024	WAG-9	GMD	22-07-14	12:41:57	DOWN	OFF
19	31026	WAG-9	GMD	22-07-14	12:41:57	DOWN	OFF

Filter Export To What's New

Loco: Type: Shed:

From: To:

Latest DDB Alerts

- + 30252 FLG: 0095- Power on
- + 30274 FLG: 0037-S/R (no lock - brake cock)

Legend Downloads

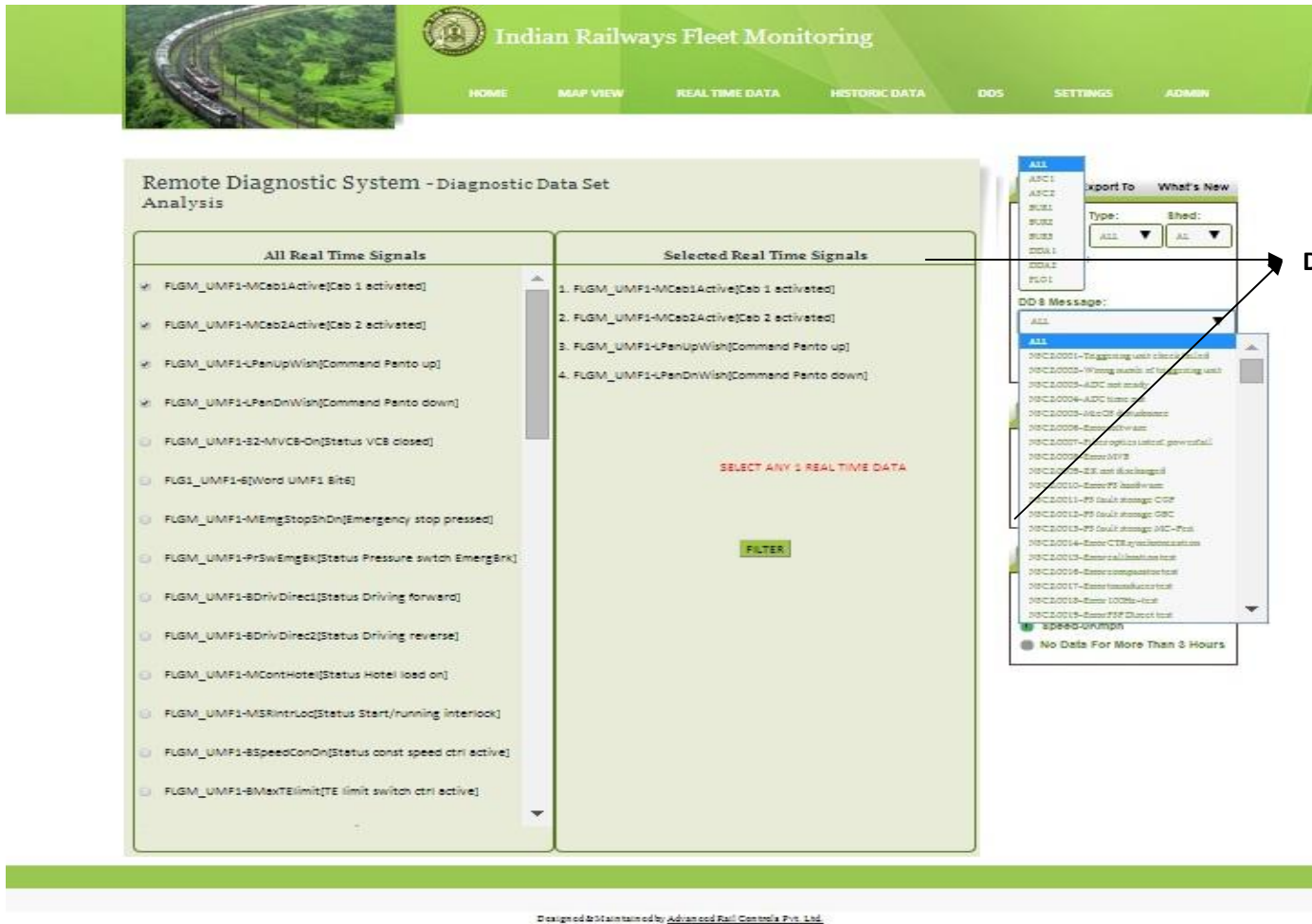
- Loco In Motion
- VCB Off
- Speed < 0 kmph
- No Data For More Than 3 Hours

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Scroll Horizontally and Vertically to View Further Details

Filter Page displays details of selected real time signals from **HISTORIC DATA** page.

DDS ANALYSIS PAGE



DDS Analysis Page contains various background data signal checkboxes which appears on selecting processor and message dropdown lists. Background signals that are clicked appears along with a filter button. It has a Filter button which on clicking gets redirected to **DDS ANALYSIS FILTER** page. Only 5 Background Data Signals can be selected from the checkbox at once. If more than 5 Signals are selected, error message is displayed - "MAXIMUM LIMIT EXCEEDED!!!!!!!!!!".



DDS ANALYSIS FILTER PAGE

Indian Railways Fleet Monitoring

HOME MAP VIEW REAL TIME DATA HISTORIC DATA DDS SETTINGS ADMIN

### Remote Diagnostic System - Diagnostic Data Set Analysis

Sl.No	Loco	Type	Shed	Date	Time	DDS Information	FLGM_UMF1-MCab1Active[ Cab 1 activated]	FLGM_UMF1-MCab2Active[ Cab 2 activated]	FLGM_LR LPanUpWish[ c Pantog
1	30272	WAP-7	USD	20-05-2014	02:38:17	FUG 1:009 1-Power on of MCE	0	0	0
2	30272	WAP-7	USD	20-05-2014	02:41:34	FUG 1:009 1-Power on of MCE	0	0	0
3	30250	WAP-7	USD	20-05-2014	12:20:21	FUG 1:009 1-Power on of MCE	0	0	0
4	30272	WAP-7	USD	20-05-2014	02:39:37	FUG 1:009 1-Power on of MCE	0	0	0
5	31226	WAG-9	AQ	20-05-2014	07:48:41	FUG 1:009 1-Power on of MCE	0	0	0
6	31073	WAG-9	AQ	01-05-2014	14:50:57	FUG 1:009 1-Power on of MCE	0	0	0
7	30272	WAP-7	USD	20-05-2014	02:11:29	FUG 1:009 1-Power on of MCE	0	0	0
8	30274	WAP-7	USD	20-05-2014	10:46:09	FUG 1:009 1-Power on of MCE	0	0	0
9	31073	WAG-9	AQ	01-05-2014	15:48:18	FUG 1:009 1-Power on of MCE	0	0	0
10	31073	WAG-9	AQ	01-05-2014	15:55:17	FUG 1:009 1-Power on of MCE	0	0	0
11	31073	WAG-9	AQ	01-05-2014	15:56:25	FUG 1:009 1-Power on of MCE	0	0	0

Filter ExpertTo What's New

Loco: All Type: MCE Shed: All

From: To:

Latest DDS Alerts

- + 30273 FUG: 0091-Power on of MCE
- + 31026 FUG: 0091-Power on of MCE
- + 31048 FUG: 0036-S/R interlock- auto brake

Legend Download

- Loco In Motion
- VCB Off
- Speed=0 kmph
- No Data For More Than 3 Hours

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DDS Analysis Filter Page displays details of selected background data signals from **DDS ANALYSIS** page.

3.4 DDS PAGE

**Indian Railways Fleet Monitoring**

HOME    MAP VIEW    REAL TIME DATA    HISTORIC DATA    **DDS**    SETTINGS    ADMIN

**Remote Diagnostic System - Diagnostic Data Set(DDS)**

Sl.No	Status	Loco	Type	Shed	IST Date	IST Time	DDS Ref	DDS Information	View All
1	●	30205	WAP-7	HWH	07-04-2014	09:04:07	2559	FLG1:0091-Power on of MCE	<a href="#">Click</a>
2	●	30206	WAP-7	BIA	21-07-2014	19:19:25	4241	ASC2:0052-Error tachogenerator 1	<a href="#">Click</a>
3	●	30237	WAP-7	LGD	21-07-2011	13:56:21	1829	BUR3:0016-Bat. charge current below 10A	<a href="#">Click</a>
4	●	30239	WAP-7	LGD	21-07-2014	00:27:07	1695	NSC1:0080-Error PS hardware	<a href="#">Click</a>
5	●	30240	WAP-7	LGD	22-07-2014	10:24:26	3385	ASC2:0054-Error tachogenerator 2	<a href="#">Click</a>
6	●	30243	WAP-7	GZB	10-03-2014	09:56:32	2848	FLG1:0085-S/R Interlock - loco brake	<a href="#">Click</a>
7	●	30250	WAP-7	LGD	28-06-2014	13:24:29	8477	NSC1:0080-Error PS hardware	<a href="#">Click</a>
8	●	30252	WAP-7	GZB	22-07-2014	11:11:52	3079	FLG1:0091-Power on of MCE	<a href="#">Click</a>
9	●	30253	WAP-7	LGD	14-05-2014	18:27:26	3016	FLG1:0040-S/R Interlock - main res. low	<a href="#">Click</a>
10	●	30254	WAP-7	GZB	22-07-2014	06:38:38	4297	FLG1:0094-SS02 traction bogie1 off	<a href="#">Click</a>
11	●	30256	WAP-7	GZB	08-05-2014	16:01:03	3141	FLG1:0117-Power off of MCE	<a href="#">Click</a>
12	●	30258	WAP-7	LGD	17-07-2014	23:39:51	3309	FLG1:0019-Emergency brake pressure sw.	<a href="#">Click</a>
13	●	30259	WAP-7	LGD	19-07-2014	14:16:54	3434	FLG1:0039-S/R Interlock - emgbrk out	<a href="#">Click</a>
14	●	30260	WAP-7	LGD	22-07-2014	06:32:37	3345	FLG1:0085-S/R Interlock - loco brake	<a href="#">Click</a>
15	●	30261	WAP-7	LGD	07-07-2014	07:38:53	3998	ASC2:0052-Error tachogenerator 1	<a href="#">Click</a>
16	●	30262	WAP-7	LGD	27-06-2014	20:56:30	4093	NSC1:0080-Error PS hardware	<a href="#">Click</a>
17	●	30263	WAP-7	AQ	25-06-2014	11:17:14	4891	FLG1:0091-Power on of MCE	<a href="#">Click</a>
18	●	30264	WAP-7	AQ	22-07-2014	11:14:36	3547	FLG1:0091-Power on of MCE	<a href="#">Click</a>
19	●	30271	WAP-7	LGD	22-07-2014	11:40:11	1943	FLG1:0091-Power on of MCE	<a href="#">Click</a>
20	●	30272	WAP-7	LGD	01-01-1970	00:00:00	713	BUR2:0020-Bat. charge current below 10A	<a href="#">Click</a>

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Click To View All DDS of A Single Loco

DDS page displays the latest fault messages of each loco.

GLOBAL HITLIST PAGE

Sl.No	DDS Information	Number Of Occurrence
1	FLG1:0092-4CP/Train Part	4234
2	FLG1:0091-Power on of MCE	3245
3	FLG1:0117-Power off of MCE	2965
4	FLG1:0040-S/R Interlock - main res. low	1442
5	FLG1:0087-S/R Interlock - brake cock	745
6	SUG1:0072-Power reduction conv. temp.	698
7	FLG1:0087-Dist. one trafo oil circuit	690
8	FLG1:0086-S/R Interlock - auto brake	679
9	SUG1:0070-Power reduction line voltage	667
10	FLG1:0018-Emergency brake pressure div.	543
11	FLG1:0018-Emergency stop - shutdown	421
12	FLG1:0020-Emergency brake vigilance	417
13	FLG1:0035-S/R Interlock - loco brake	406
14	SUG2:0018-Pressure oil trafo not okay	396
15	HBB1:0014-Earth fault filter circuit	368
16	SUG1:0020-Primary voltage < minimum	336
17	SUG2:0020-Primary voltage < minimum	321
18	FLG1:0088-S/R Interlock - park brake	266
19	FLG1:0024-MCE off - pen was down 10 min	238
20	FLG1:0017-Train stop - loco stop	194

Global Hitlist Page displays number of occurrences of each DDS information of all the locos.

DDS DATA PAGE

**Remote Diagnostic System - Diagnostic Data Set(DDS)**

Sl.No	Loco	Type	Shed	DDS Date	DDS Time	IST Date	IST Time	DDS Ref	DDS Information
1	30206	WAP-7	BIA	22-Jul-2014	00:49:25	21-07-2014	19:19:25	<a href="#">4241</a>	ASC2:0052-Error tachogenerator 1
2	30206	WAP-7	BIA	22-Jul-2014	00:21:08	21-07-2014	18:31:08	<a href="#">4240</a>	ASC2:0052-Error tachogenerator 1
3	30206	WAP-7	BIA	22-Jul-2014	00:12:22	21-07-2014	18:42:22	<a href="#">4239</a>	ASC2:0052-Error tachogenerator 1
4	30206	WAP-7	BIA	21-Jul-2014	23:41:42	21-07-2014	18:11:42	<a href="#">4238</a>	SUG1:0070-Power reduction line voltage
5	30206	WAP-7	BIA	21-Jul-2014	23:36:34	21-07-2014	18:06:34	<a href="#">4237</a>	SUG1:0070-Power reduction line voltage
6	30206	WAP-7	BIA	21-Jul-2014	22:28:05	21-07-2014	16:38:05	<a href="#">4236</a>	SUG1:0070-Power reduction line voltage
7	30206	WAP-7	BIA	21-Jul-2014	21:06:08	21-07-2014	15:36:08	<a href="#">4235</a>	FUG1:0035-S/R interlock - loco brake
8	30206	WAP-7	BIA	21-Jul-2014	19:21:35	21-07-2014	07:51:35	<a href="#">4234</a>	FUG1:0091-Power on of MCE
9	30206	WAP-7	BIA	21-Jul-2014	12:30:42	21-07-2014	07:00:42	<a href="#">4233</a>	FUG1:0117-Power off of MCE
10	30206	WAP-7	BIA	1-Jan-1970	05:30:00	01-01-1970	00:00:00	<a href="#">4232</a>	SUG1:0070-Power reduction line voltage
11	30206	WAP-7	BIA	21-Jul-2014	11:47:36	21-07-2014	06:17:36	<a href="#">4231</a>	SUG1:0070-Power reduction line voltage
12	30206	WAP-7	BIA	21-Jul-2014	11:41:10	21-07-2014	06:11:10	<a href="#">4230</a>	ASC2:0052-Error tachogenerator 1
13	30206	WAP-7	BIA	1-Jan-1970	05:30:00	01-01-1970	00:00:00	<a href="#">4229</a>	SUG1:0070-Power reduction line voltage
14	30206	WAP-7	BIA	21-Jul-2014	11:06:19	21-07-2014	05:36:19	<a href="#">4228</a>	SUG1:0070-Power reduction line voltage
15	30206	WAP-7	BIA	21-Jul-2014	11:01:47	21-07-2014	05:31:47	<a href="#">4227</a>	SUG1:0070-Power reduction line voltage
16	30206	WAP-7	BIA	1-Jan-1970	05:30:00	01-01-1970	00:00:00	<a href="#">4226</a>	SUG1:0070-Power reduction line voltage
17	30206	WAP-7	BIA	21-Jul-2014	10:49:21	21-07-2014	05:19:21	<a href="#">4225</a>	SUG1:0070-Power reduction line voltage
18	30206	WAP-7	BIA	1-Jan-1970	05:30:00	01-01-1970	00:00:00	<a href="#">4224</a>	SUG1:0070-Power reduction line voltage
19	30206	WAP-7	BIA	21-Jul-2014	10:42:12	21-07-2014	05:12:12	<a href="#">4223</a>	SUG1:0070-Power reduction line voltage
20	30206	WAP-7	BIA	21-Jul-2014	10:35:41	21-07-2014	05:05:41	<a href="#">4222</a>	SUG1:0070-Power reduction line voltage

**Annotations:**

- Datepicker Textbox:** Points to the 'From' and 'To' date fields in the filter panel.
- Click This to Reset Dates:** Points to the refresh icon in the filter panel.
- Click To View the Background Data of Respective DDS Message:** Points to the DDS Ref link in the table.

DDS Data Page provides all the fault messages of a particular Loco. It contains Hitlist link. This can be viewed on mouse over the DDS link.

**FILTER** panel of first tab contains Drop down lists: Proc Name and DDS Message. Processor Dropdown List loads the processors from the database and Message Dropdown List loads the DDS messages from the database

BACKGROUND DATA PAGE

The screenshot shows a modal window titled 'Remote Diagnostic System' with a table of signal data. The table has columns: Word Number, Byte Number, Signal Description, Value, and Signal Name. Above the table are three icons for PDF, Word, and Excel. Arrows point from the labels 'Pdf', 'Word', and 'Excel' to these respective icons. The background shows a blurred view of the main interface with a table of locomotive data.

Word Number	Byte Number	Signal Description	Value	Signal Name
1	0	Cab 1 activated	0	FLGM_UMF1-MCab1Active
1	1	Cab 2 activated	1	FLGM_UMF1-MCab2Active
1	2	Command Panto up	1	FLGM_UMF1-LPanUpWish
1	3	Command Panto down	0	FLGM_UMF1-LPanDnWish
1	4	Status VCB closed	1	FLGM_UMF1-32-MVCB-On
1	5	Word UMF1 Bit6	0	FLG1_UMF1-6
1	6	Emergency stop pressed	0	FLGM_UMF1-MEmgStopShDn
1	7	Status Pressure switch EmergBk	0	FLGM_UMF1-PrSwEmgBk
1	8	Status Driving forward	0	FLGM_UMF1-BDrivDirac1
1	9	Status Driving reverse	1	FLGM_UMF1-BDrivDirac2
1	10	Status Hotel load on	0	FLGM_UMF1-MContHotel
1	11	Status Start/running interlock	0	FLGM_UMF1-MSRIntriLoc
1	12	Status const speed ctrl active	0	FLGM_UMF1-BSpeedConOn

Background Data Page contains Background data of the corresponding Reference number clicked in DDS Data page.

It has three Image buttons: PDF button which when clicked downloads the file in pdf format, WORD button which when clicked downloads the file in word format, EXCEL button which when clicked downloads the file in excel format.

HITLIST PAGE

SLNo	DDS Information	Number Of Occurrence
1	FUS 1.008 1-Power on of MCE	75
2	FUS 1.0117-Power off of MCE	54
3	FUS 1.008 5-S/R interlock - loco brake	30
4	FUS 1.0082-ACP/Tra in Part	27
5	SUS 1.0070-Power reduction line voltage	24
6	FUS 1.0040-S/R interlock - main res. low	22
7	FUS 1.0018-Emergency stop - shutdown	18
8	FUS 1.0019-Lifesign from DIA 1 missing	18
9	FUS 1.0020-Emergency brake vigilance	12
10	FUS 1.0019-Emergency brake pressure sw.	12
11	FUS 1.0007-Lifesign from HBB2 missing	10
12	FUS 1.0086-S/R interlock - auto brake	8
13	SUS 1.0020-Primary voltage < minimum	6
14	FUS 1.0106-SS14 cb2 off	6
15	BUR1.0011-Contactor 52/5 will not close	6
16	FUS 1.0084-Subsystem 07 S, 08 off	5
17	FUS 1.0083-Subsystem 06 S, 08 off	5
18	FUS 1.0082-Subsystem 06 S, 07 off	5
19	FUS 1.0024-MCE off - pen was down 10 min	5
20	FUS 1.0088-SS06 Auxiliary converter f1 off	5

Hitlist Page displays number of occurrences of each DDS information of a particular loco.

SETTINGS

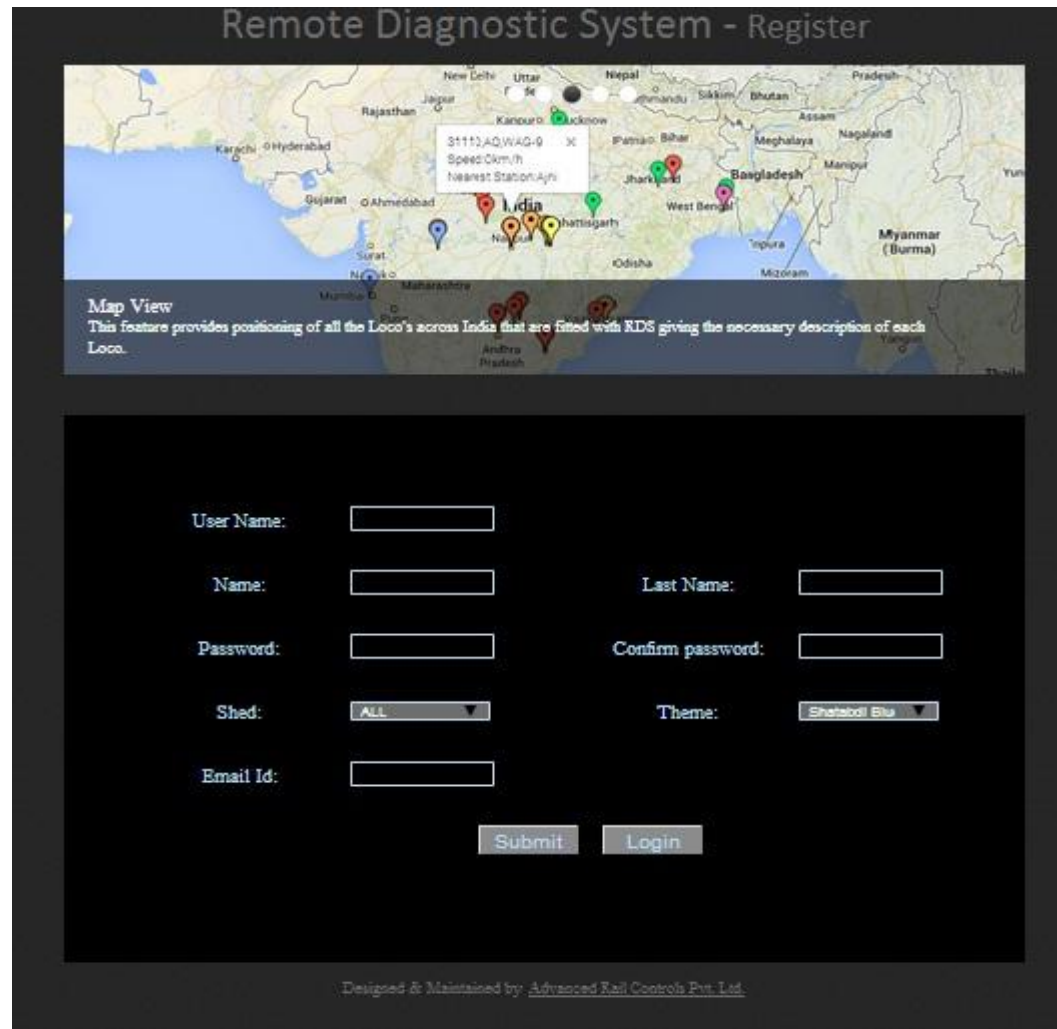
The screenshot displays the 'Indian Railways Fleet Monitoring' interface. At the top, there is a navigation bar with links for HOME, MAP VIEW, REAL TIME DATA, HISTORIC DATA, DDS, SETTINGS, and ADMIN. Below this is a 'Remote Diagnostic System' section with a table of locomotive data. To the right, a 'PERSONALIZE' sidebar is open, showing options for themes (SNATADEN BLUE, DURGONTO GREEN, BLACK DIAMOND) and a 'LOGOUT' button. A legend for the data table is also visible, defining symbols for 'Loos In Motion', 'VCB Off', 'Speed-0 kmph', and 'No Data For More Than 3 Hours'.

SL.No	Status	Loco	Type	Shed	Date	Time	Parsto	VCB	Speed	V/CAT (kV)	V/BAT (Volts)	TE/SE (kN)	Iso	Nearest Station	Map
1	●	30205	WAP-7	HWH	08-04-14	14:32:08	UP	OFF	0	25	99	0	NO	Litue h	<a href="#">Click</a>
2	●	30206	WAP-7	BIA	02-07-14	22:38:37	UP	ON	0	26	110	0	NO	Re g e r h	<a href="#">Click</a>
3	●	30237	WAP-7	USD	28-06-14	04:36:01	UP	ON	0	25	111	0	NO	Vijays wada	<a href="#">Click</a>
4	●	30239	WAP-7	USD	28-06-14	14:56:34	DOWN	OFF	0	0	0	0	NO	La lag ude	<a href="#">Click</a>
5	●	30240	WAP-7	USD	28-06-14	15:42:19	UP	ON	0	22	110	0	NO	Harst Nica mudd in	<a href="#">Click</a>
6	●	30248	WAP-7	GZB	02-07-14	22:40:45	UP	ON	15	26	111	20	NO	God h r e	<a href="#">Click</a>
7	●	30250	WAP-7	USD	28-06-14	12:36:37	DOWN	OFF	0	0	0	0	NO	Secunda rabad	<a href="#">Click</a>
8	●	30252	WAP-7	GZB	02-07-14	22:41:23	UP	ON	0	24	110	0	NO	See lde h Mb in	<a href="#">Click</a>
9	●	30253	WAP-7	USD	04-06-14	22:28:58	UP	ON	110	26	110	67	NO	Pind l o t	<a href="#">Click</a>
10	●	30254	WAP-7	GZB	12-06-14	12:41:05	DOWN	OFF	0	0	0	0	NO	Mug h e l Se r a i	<a href="#">Click</a>
11	●	30256	WAP-7	GZB	02-07-14	22:41:14	UP	ON	112	24	111	56	NO	Seth Ne r a n i	<a href="#">Click</a>
12	●	30258	WAP-7	USD	20-06-14	15:42:48	DOWN	OFF	0	0	0	0	NO	Che n n e i Centre l	<a href="#">Click</a>
13	●	30259	WAP-7	USD	02-07-14	22:39:48	UP	ON	105	26	121	77	NO	Re g i r	<a href="#">Click</a>
14	●	30260	WAP-7	USD	02-07-14	22:40:07	UP	ON	65	25	121	-101	NO	Re y e r a p e d u	<a href="#">Click</a>
15	●	30261	WAP-7	USD	02-07-14	22:35:55	UP	ON	0	24	109	0	NO	M a l l a j i r i	<a href="#">Click</a>
16	●	30262	WAP-7	USD	20-06-14	15:41:54	UP	ON	44	25	110	-50	NO	Motum r i	<a href="#">Click</a>
17	●	30263	WAP-7	ACI	28-06-14	15:21:12	DOWN	OFF	0	0	99	0	NO	New De l h i	<a href="#">Click</a>
18	●	30264	WAP-7	ACI	02-07-14	22:34:46	UP	ON	118	24	110	-11	NO	Dong r e g a o n	<a href="#">Click</a>
19	●	30271	WAP-7	USD	02-07-14	22:30:36	DOWN	OFF	0	0	0	0	NO	S u m e r	<a href="#">Click</a>
20	●	30272	WAP-7	USD	28-06-14	15:41:26	UP	ON	99	24	112	0	NO	Chitoda	<a href="#">Click</a>

Settings Options

Settings link provides options to customize personal settings, change themes and to logout.

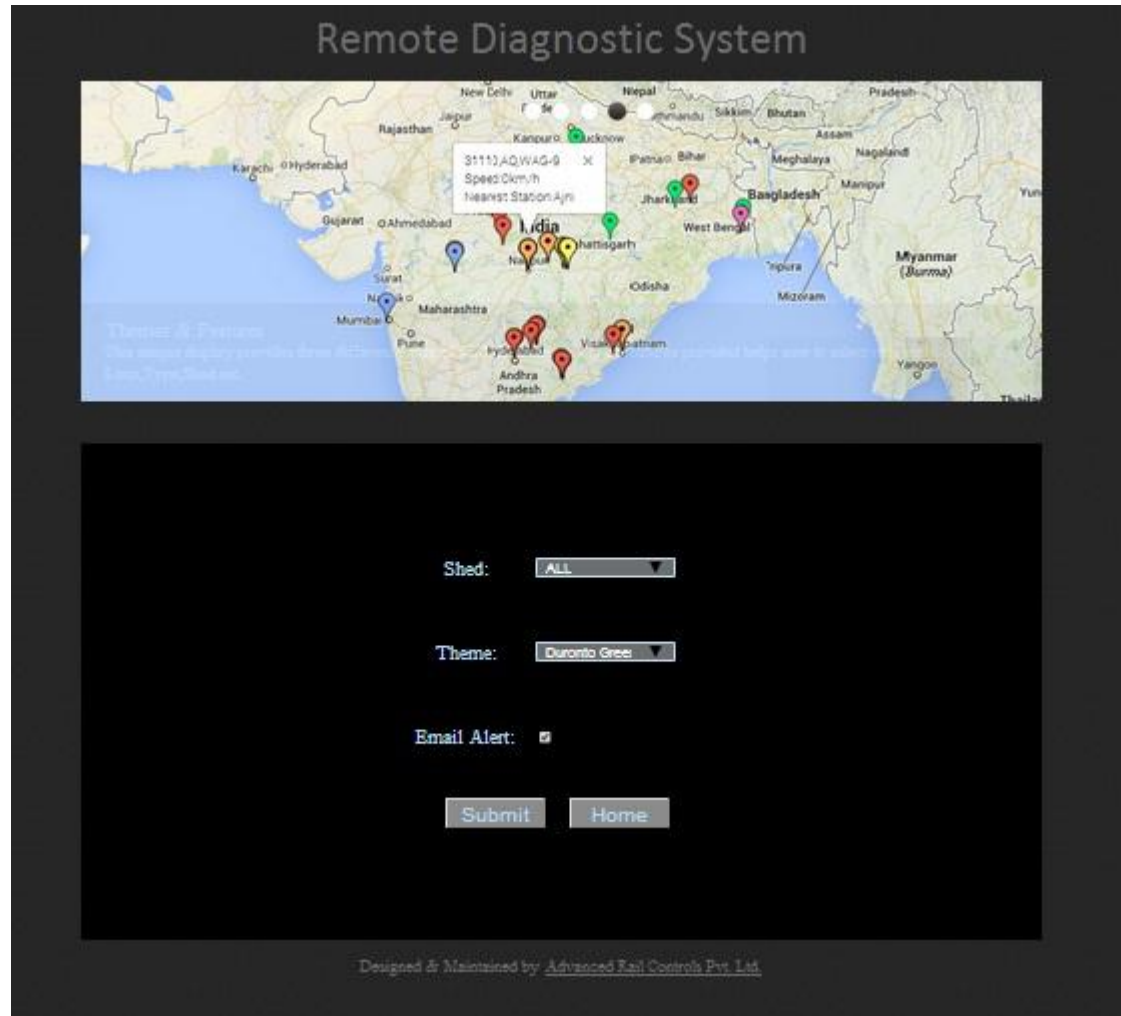
REGISTER



Register page allows users to sign in with customized settings of their own.



PERSONALIZE



Personalize page allows users to change settings done in register page.