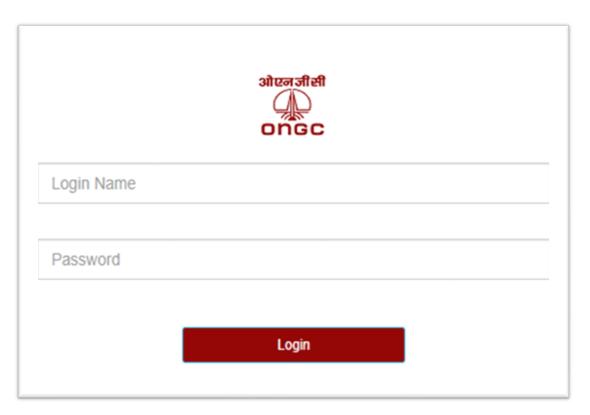
# Management Information System (MIS)

Management Information System (MIS) is an integration of Tags Monitoring, Reports, Dashboard, Graphs and Alarm Management. MIS Applications Developed by DreamSoft are Customized to the Client needs. We present herewith Case Study for ONGC's MIS Application Developed by us. Purpose of application is a develop a web interface which will help user to monitor real time parameters from remote computer using web interface. Scope of Application will be to communicate with OPC DA Tags and fetch real time data via a Middle ware layer which will communicate with OPC Server and pass data to web application.

### Login



• Login Screen where Users will Login with their Login Name and Password which are defined in the Application in User Master.

C C localhost/Home/Index							e \$ 0
		OIL AND NATU	JRAL GAS	CORPORATION	LIMITED		
Configuration > Dashboard Tab	ular Data Event Analysis	El Units »					
ompressor »LP-A							Set As Default
Data Value							
<b>1568.00</b> LP-A-KW	xw	<b>822.00</b> LP-A-KVAR	kvar	1770.00 LP-A-KVA	e.e.	<b>49.83</b> LP-A-FRQ	Hz
<b>.89</b> LP-A-PF	NA	1803 LP-A-RUNHRS	HOURS	C DODADE	- D X		
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3000							
2900							

• For Specific Tags which are defined, their Real Time Values will be displayed on the Dashboard. Line Chart will show Data Values in Graphical View.

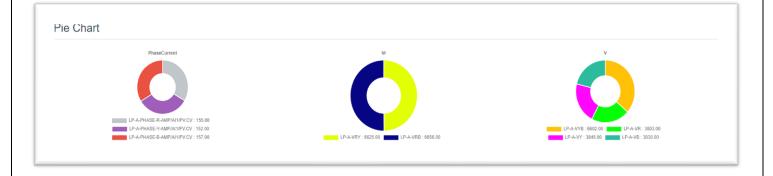
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ompressor »LP-A							Set As Default
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<b>1579.00</b> LP-A-KW	kW	<b>824.00</b> LP-A-KVAR	kvar	<b>1781.00</b> LP-A-KVA	KVA	<b>49.95</b> LP-A-FRQ	Hz
.89		1803					
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ine Chart							
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1000							

• Another View of Dashboard with Red Colored Tag whose Value has gone below the Min. Tag Value Defined.

Bar (	Jharts								
2000	1571.00		1774.00	LP-A-KW				1571.	00
1500									
		024.00							
1000		824.00		LP-A-KVAR		824.00			

• Bar Charts for Various Tag Values in terms of Graphics Representation

# > Pie Chart



• Pie Charts for Various Tag Values in terms of Graphics Representation

# > Guage Chart

LP-A-VRY	LP-A-VRB	LP-A-VYB	LP-A-VR
	6YND	LI -A-VTD	PI AAAN
v 6625.00 6600	0 6656.00 6600	0 6602.00 6600	0 3803.00 3300
LP-A-VY	LP-A-VB		
LF-24-V1	LE-M-VD		

• Gauge Charts for Various Tag Values in terms of Graphics Representation

			• 년 ☆ 🛛
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	0	IL AND NATONAL GAS CONTONATION LIMITED	
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	hRecords ManageRecords		
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U			
	TRANSFORMER	TRANSFORMER	8
0		TRANSFORMER Pump	(X) (X) (X)
0	TRANSFORMER		

• Definition of Main Units in Application

### > Sub Unit Master

C	① localhost/Configuration/SubUnit/SU				e 🛧 🖬 😩
		OIL ANI	D NATURAL GAS CORI	PORATION LIMITED	
Confi	iguration » Dashboard Tabular Data Event	Analysis 🗐 Units »			🛔 Administrator 🛛 🚱 Log Out
ub	Unit Master				
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	LP-A	Compressor		LP-A	3
	LP-A LP-B	Compressor Compressor		LP-A LP-8	27 27
	LP-A LP-B LP-C	Compressor Compressor Compressor		LP-A LP-B LP-C	2 2 2 2
	LP-A LP-8 LP-C LF-C	Compressor Compressor Compressor Compressor		LP-A LP-B LP-C LFT-A	22 22 22 22 22
	LP-A LP-8 LP-C LFT-A LFT-8	Compressor Compressor Compressor Compressor Compressor		LP-A LP-8 LP-C LFT-A LFT-8	2 2 2 2 2 2 2 2
	LP-A LP-8 LP-C LFT-A LFT-8 LFT-C	Compressor Compressor Compressor Compressor Compressor Compressor		LP-A LP-8 LP-C LFT-A LFT-8 LFT-C	2 2 2 2 2 2 2 2 2 2 2 2 2 2
	LP-A LP-B LP-C LFT-A LFT-B LFT-C EFF, DISP-A	Compressor Compressor Compressor Compressor Compressor Compressor Pump		LP-A           LP-B           LP-C           LFT-A           LFT-B           LFT-C           EFF. DISP-A	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

• Definition of Multiple Sub Units Under Main Units in Application

# > Tag Source

	0	IL AN	D NATU	RAL GA	AS CO	ORPC	RATIO	ON LIM	ITED		
Configuration »	Dashboard	Tabular Data	Event Analysis	🗐 Units »						Administrator	🕞 Log Out
CTRIC HEATER	R »TESTTANK I	ELECTRIC	HEATER (E-11)								
Tag Sour	<b>_</b>	s									
OPC DA											
Server Name											
OPC.DeltaV.	1										
Server Port											
0											
Server IP											
192.168.69.1	32										
											🖹 Save

• Definition Tags Source with OPC Type, Server Name, Port and IP Information

# > Tag Group

Tag Group Maste SearchRecords ManageRec					
Group Name		Code			
PhaseCurrent		PhaseCurrent			
Group Details		Status Active	○ Not Active		
Details	li				
					🖹 Save

### > Tag Master->Search Records

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	OIL ANI	D NATURAL GAS	CORF	PORATION LIMITED		Î
Configuration » Dashboard Tabular Data Event	Analysis 📳 Units »				Administrator	E Log Out
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ag Master						
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+ADD DELETE	1					
Search Search		RecordCount 10		Q, Search		
Unit Name	Group Name		Тад Туре	Tag Name	Tag Path	EDIT
LP-A	PhaseCurrent		Analog	LP-A-PHASE-R-AMP/AI1/PV.CV	LP-A-PHASE-R-AMP/AI1/PV.CV	8
LP-A	PhaseCurrent		Analog	LP-A-PHASE-Y-AMP/AI1/PV.CV	LP-A-PHASE-Y-AMP/AI1/PV.CV	Ø
	PhaseCurrent PhaseCurrent		Analog Analog	LP-A-PHASE-Y-AMP/A11/PV.CV LP-A-PHASE-B-AMP/A11/PV.CV	LP-A-PHASE-Y-AMP/AI1/PV.CV LP-A-PHASE-B-AMP/AI1/PV.CV	8
			-			
LP-A LP-A	PhaseCurrent		Analog	LP-A-PHASE-B-AMP/AI1/PV.CV	LP-A-PHASE-B-AMP/AI1/PV.CV	8
LP-A           LP-A           LP-A	PhaseCurrent Vr		Analog Analog	LP-A-PHASE-B-AMP/A11/PV/CV LP-A-VRY	LP-A-PHASE-B-AMP/AI1/PV.CV R40609_655/LP-A-VRY.CV	8
LP-A           LP-A           LP-A	PhaseCurrent Vr Vr		Analog Analog Analog	LP-A-PHASE-8-AMP/A11/PV-CV LP-A-VRY LP-A-VRB	LP.A.PHASE-B-AMP/AI1/PV.CV R40609_655/LP.A.VRY.CV R40609_655/LP.A.VRB.CV	8 8 8
LP-A           LP-A           LP-A           LP-A	PhaseCurrent Vr Vr V		Analog Analog Analog Analog	LP-A-PHASE-B-AMP/A11/PV-CV LP-A-VRY LP-A-VRB LP-A-VYB	LP-A-PHASE-B-AMP(A11/PV-CV R40609_655/LP-A-VRY-CV R40609_655/LP-A-VRB-CV R40609_655/LP-A-VRB-CV	8 8 8
LPA           LPA           LPA           LPA           LPA	PhaseCurrent Vr Vr Vr V		Analog Analog Analog Analog Analog	LP-A-PHASE-8-AMP/A11/PV-CV LP-A-VRY LP-A-VR8 LP-A-VR LP-A-VR	LP-A-PHASE-B-AMPIA110V.CV           R40609_5551LP-A-VRY_CV           R40609_6551LP-A-VRB_CV           R40609_6551LP-A-VRD_CV           R40609_6551LP-A-VRCV	50 50 50 50 50 50 50

• Tags Master with Group Linking, Tag Type, Tag Name and Path. Multiple Tags can be configured in this Application.

#### > Tag Master->Manage Record

	ishboard Ta	ibular Data	Event Analysis	🔲 Units »			Administrator	C Lo
For Marsten								
Tag Master		DianlauD						
SearchRecords Ma	nageRecords	DisplayPa	arameters					
Sub Unit Name						Group Name		
LP-A					~	PhaseCurrent		`
Tag Name						Tag Path		
LP-A-PHASE-R-AM	IP/AI1/PV.CV					LP-A-PHASE-R-AMP/AI1/PV.CV		
Tag Min Value			Tag Max Value			Tag Resolution		
0.00			170.00			0.01		
Tag Type			UOM			Status		
lag lype			A			Active     Not Active		

• Tag Master Form indicating various Tag Details to be provided like : Tag Minimum Vaule, Tag Max Value (for Monitoring), Tag Resolution (For Graph and Display), Tag Type, Unit of Measurement, Status of the Tag etc.

C  O localhost/Configuration/Tags_Edit/TG?RecordId=Mg%3D%3D&PageIndex=08	PageSize=10	e 🛧 🖬 😩
OILA	ND NATURAL GAS CORPORATION LIMITED	
Configuration » Dashboard Tabular Data Event Analysis 🗍 Units »		▲ Administrator 🛛 👄 Log Out
- Martin		
ag Master		
earchRecords ManageRecords DisplayParameters		
earchRecords ManageRecords DisplayParameters	Tag Display Parameter	
	Tag Display Parameter Select Display Parameter	×
Tag Name		×
Tag Name LP-A-PHASE-Y-AMP/AI1/PV.CV		~
Tag Name LP-A-PHASE-Y-AMP/AI1/PV CV Control Type	Select Display Parameter	~

• Tags Definition with Various Display Parameters

# > Change Password

Existing Password	
ExistingPassword	
New Password	
NewPassword	
Confirm Password	
Confirmpassword	

Change Password Screen

# > Tabular Data

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Configuration > Dashbo	aard Tabular Data Event Analysis 🗒 Units >			▲Administrator 😕 Log Out
essor »LP-A				
	Rame	Value	UOM	
	LP-A-PHASE-R-AMPINIT/PVCV	156.00	A	
	LP-A-PHASE-Y-AMPINISTIVICY	153.00		
	LP & PHASE & AMPINEPY CV	158.00	A	
	LP-A-VRY	6662.00		
	UP-A-VIDY	6682.00		
	LP-A-VRB	9070.00		
	LP-A-VRB	6650.00		
	UPAWB	6639.00		
	UP-A WB	6639.00	¥.	
	UPAW	3825.00		
	UPAVR	3625.00		
	UPAWY	3066.00		
	UPAW	3866.00	Y.	
	UPAV8	3652.00		
	LP-AVB	9052.00		
	LP-A-KW	1564.00	KAN .	
	UPARW	1984.00		
	LPAKWR	633.00		

• Display of Tags in Table with Tag Name, Value and UOM

# > Event Analysis

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tenstel Dig nige	OIL AND NATUR	AL GAS CORPORATION LIMIT	ED #
Configuration > Dashboard Tabular Data Event A	natysis 🗐 Units »		Administrator 🕞 Log Out
ent Analysis m Date		To Date	
5-03-2023 00:00:00		06-04-2023 14:05:14	
Enter Search Text			
Event Analysis I	Report Screen		

# > Event\_Analysis Excel Export

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LogDateTime	UnitName	SubUnit	TagName	TagPath			.606	e EventType
2023-04-05 11:35:17		LFT-A	LFT-A-AVPHASE	R40048_094/LFT-A-AVPHASE.CV	(			High Alarm
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2023-04-05 11:35:17		LFT-B	LFT-B-AVPHASE	R40095_141/LFT-B-AVPHASE.CV	(			High Alarm
2023-04-05 11:35:17		LFT-B	LFT-B-VB	R40095_141/LFT-B-VB.CV	(		.606	High Alarm
2023-04-05 11:35:17	Construction and the second second	LFT-B	LFT-B-VR	R40095_141/LFT-B-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17		LFT-B	LFT-B-VY	R40095_141/LFT-B-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17		LFT-C	LFT-C-AVPHASE	R40142_188/LFT-C-AVPHASE.CV	(			High Alarm
2023-04-05 11:35:17		LFT-C	LFT-C-FRQ	R40142_188/LFT-C-FRQ.CV	(		.606	High Alarm
2023-04-05 11:35:17		LFT-C	LFT-C-VB	R40142_188/LFT-C-VB.CV	(	1	.606	High Alarm
2023-04-05 11:35:17		LFT-C	LFT-C-VR	R40142_188/LFT-C-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17		LFT-C	LFT-C-VY	R40142_188/LFT-C-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17	-	HP-INJ-A		R40142_40188/HP-INJ-A-AVPHASE.CV			.606	High Alarm
2023-04-05 11:35:17		HP-INJ-A	HP-INJ-A-VB	R40142_40188/HP-INJ-A-VB.CV	(		.606	High Alarm
2023-04-05 11:35:17	and the second	HP-INJ-A	HP-INJ-A-VR	R40142_40188/HP-INJ-A-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17		HP-INJ-A	HP-INJ-A-VY	R40142_40188/HP-INJ-A-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17		HP-INJ-B		R40189_40235/HP-INJ-B-AVPHASE.CV			.606	High Alarm
2023-04-05 11:35:17		HP-INJ-B	HP-INJ-B-VB	R40189_40235/HP-INJ-B-VB.CV	(		.606	High Alarm
2023-04-05 11:35:17	and the second	HP-INJ-B	HP-INJ-B-VR	R40189_40235/HP-INJ-B-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17		HP-INJ-B	HP-INJ-B-VY	R40189_40235/HP-INJ-B-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17	A CONTRACTOR OF	HP-INJ-C		R40283_40329/HP-INJ-C-AVPHASE.CV			.606	High Alarm
2023-04-05 11:35:17		HP-INJ-C	HP-INJ-C-VB	R40283_40329/HP-INJ-C-VB.CV	(		.606	High Alarm
2023-04-05 11:35:17		HP-INJ-C	HP-INJ-C-VR	R40283_40329/HP-INJ-C-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17		HP-INJ-C	HP-INJ-C-VY	R40283_40329/HP-INJ-C-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17	Compressor	LP-A	LP-A-AVPHASE	R40609_655/LP-A-AVPHASE.CV	(		.606	High Alarm
2023-04-05 11:35:17		LP-A	LP-A-KVA	R40609_655/LP-A-KVA.CV	(		.606	High Alarm
2023-04-05 11:35:17	Compressor	LP-A	LP-A-VB	R40609_655/LP-A-VB.CV	(		.606	High Alarm
2023-04-05 11:35:17	Compressor	LP-A	LP-A-VR	R40609_655/LP-A-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17	Compressor	LP-A	LP-A-VY	R40609_655/LP-A-VY.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-B	TX-B-FRQ	R41320_41360/TX-B-FRQ.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-B	TX-B-KVA	R41320_41360/TX-B-KVA.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-B	TX-B-VR	R41320_41360/TX-B-VR.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-C	TX-C-FRQ	R41362_41402/TX-C-FRQ.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-C	TX-C-KVA	R41362_41402/TX-C-KVA.CV	(		.606	High Alarm
2023-04-05 11:35:17	TRANSFORMER	HTR-TRT-TX-C	TX-C-VR	R41362_41402/TX-C-VR.CV	(	97.27	.606	High Alarm
2023-04-05 11:40:26	Compressor	IFT-A	IFT-A-AVPHASE	840048 094/LET-A-AVPHASE.CV	(	0.5	606	High Alarm

• Event Analysis Report in Excel with Various Fields of Tags

uerated A INGC				
Ingel	OIL AND NATONA	L GAS CORPORATION LIMITED		EMERSON
Configuration > Dashboard Tabular Data Event	t Analysis 🗍 Units >		4	Administrator 🕞 Log Out
ent Analysis	Compressor » TRANSFORMER »			
n Date	Pump »	To Date		
i-03-2023 00:00:00	INCOMING SUPPLY >>	06-04-2023 14:05:14		
Enter Search Text	LP-A			
Enter Search Text	LP-B			G
	LP-C			
	LFT-A			
	LFT-B			
	LFT-C			

 Various Units and Sub Units displayed on Screen whose Tags user wants to View

# **Brief Features**

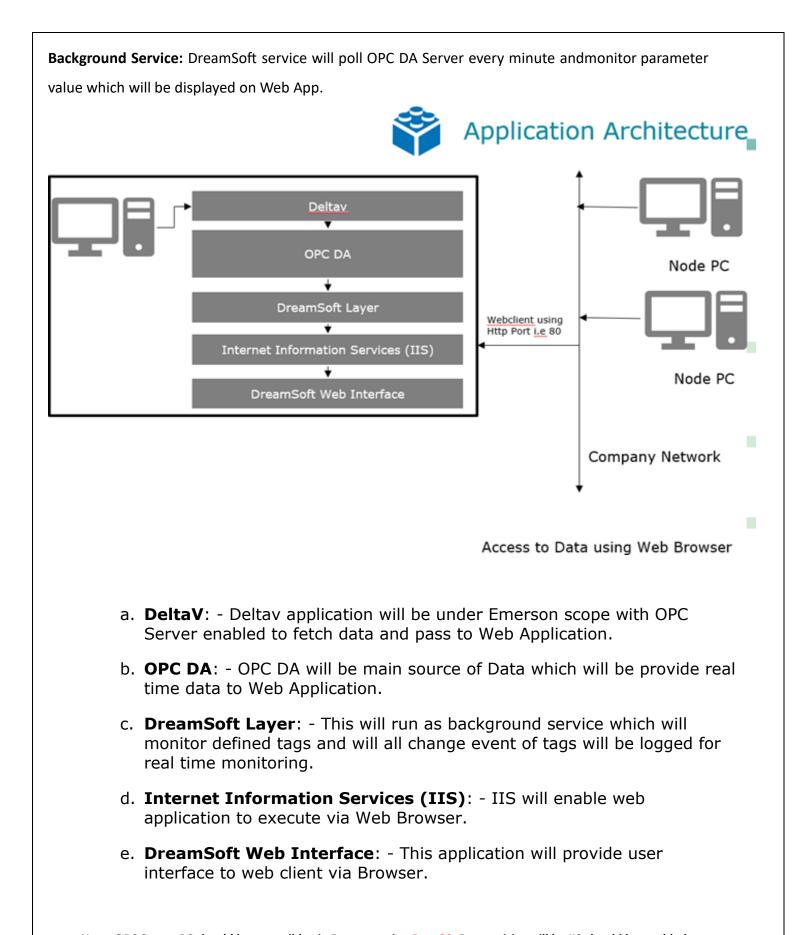
#### > Web Application Module

- Region: This option will allow User to configure different region i.e. Critical Parameters, Non Critical Parameters,.
- Parameter Group: This option will allow user to configure different Parameter
   w.r.t Region. E.g. Under Region Critical Parameter there will be
   parametergroup as Unit-1, Unit-2
- Tag Configuration: This option will user to configure different Tags under Region and Group e.g. as below
  - Critical Parameter
    - Unit-1
      - ON/OFF STATUS
      - TRIP STATUS
  - Maintenance Room Area
    - First Floor Lobby
      - Temperature
      - Humidity
    - Safety Room Area
      - o Temperature
      - o Humidi

ty Important Fields will be as

below

- Region (Selection from Region Master)
- Parameter (Selection from Parameter Group)
- Tag Name
- Parameter Unit
- Resolution
- Upper & Lower Limit to change color for display.
- User Configuration: Maintaining a common username and password for the web application & Mobile App login

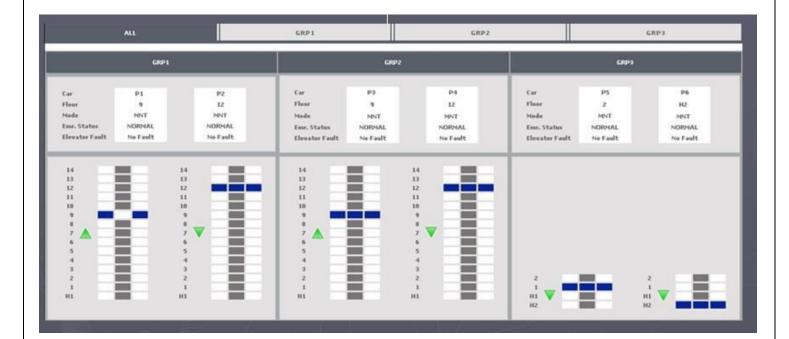


Note: OPC Server PC should be accessible via Browser using Port 80. Prerequisite will be IIS should be enabled on OPC Server. i.e. if <u>http://OPCServerName</u> or <u>http://192.168.0.88</u> is typefrom node computer IIS Welcome page should be displayed.

# **Sample Screens of Other MIS Applications**

#### CRITICAL PARAMETERS-UNIT1 (1) CRITICAL OVER VIEW

Boiler Parameters 1		Boiler Parameters 2		Major Parameters		Coal Flows	
Description	Value	Description	Value	Description	Value	Description	Valu
TOTAL AIR FLOW	2754.76	PA AIR FLOW	930.96	GENERATOR KV	24.66	TOTAL COAL FLOW	387.9
SEC AIR FLOW	1822.43	DOWNCOMER LEVEL	7713.62	U#1 SYNCED	-	TOTAL COAL FLOW A	77.0
SEP LEVEL	0.00	PA TEMP AFT APH - A	302.28	U#1 TRIPPED		TOTAL COAL FLOW B	76.8
SEP STEAM O/L SUPERHEAT	39.76	WB DP	110.86	MVAR	-30.59	TOTAL COAL FLOW C	79.3
SEC TEMP AFT APH - A	311.67	% OXYGEN AT APH	14.56	GENERATOR CURRENT	16.33	TOTAL COAL FLOW D	77.7
FURANCE PR	-12.57	FUEL - FW RATION	0.97	MS PRESSURE	241.76	TOTAL COAL FLOW E	0.00
PA HDR PRESSURE	866.80	AFT APH - A	133.27	MS TEMP	560.86	TOTAL COAL FLOW F	76.9
% OXYGEN AT ECO	3.48	FLOW AFT LPH - 4	1613.39	CRH PRESSURE	-0.06		
FUEL - AIR RATION	0.86	AFT ID - A	121.54	CRH TEMP	342.99		
FG TEMP BEF APH - A	343.64	O/L TEMP	351.49	HRH PRESSURE	47.20		
COND TEMP AFT LPH-4	154.81	P/R TEMP	565.52	HRH TEMP	559.53		
FG TEMP BEF ID - A	114.54	SH SPRAY RIGHT	28.33	CONDENSER VACCUM (HP)	-0.85		
ECO IL	300.64	RH SPRAY RIGHT	0.00	CONDENSER VACCUME	-0.93		
SH O/L	245.80	FW TEMP AFT HPH - 8	299.66	(LP) MS SILICA	4.18	_	
SH SPRAY LEFT	27.13	BT POS	79.09	MS CAT, COND	0.06	_	
RH SPRAY LEFT	0.00	FEED SILICA	5.51		0.00		
EMERG CLNG WTR TANK LVL	1299.32	FEED CAT COND	0.03				
FW FLOW AFT HPH - 8	2254.58						
BFP DISCHARGE PR	281.01						



S14QC	-LI-166	S14QC	-LI-165	S14QC	-LI-170	S14QC	-LI-167
Status	• Online	Status	🗢 Online	Status	<ul> <li>Online</li> </ul>	Status	• Online
Pending Alarms	A No Alarm	Pending Alarms	A No Alarm	Pending Alarms	Alarms (4)	Pending Alarms	Alarms (9)
Pending Review	04/09/2014 14:00:00	Pending Review		Pending Review	04/09/2014 14:00:00	Pending Review	04/09/2014 14:00:00
S14QC	-LI-168	S14Q0	-LI-169	1.2.5	1.52.5		
Status	<ul> <li>Online</li> </ul>	Status	<ul> <li>Online</li> </ul>				
		and the second second					
Pending Alarms	Alarms (3)	Pending Alarms	Alarms (13)	And South States			

#### IO Status

Temperature

Equipment S14QC-LI-165 T

MAIN	ON	COMPRESSOR1	OFF	WATER LEVEL1	LOW
HUMDIFIER HEATER1	OFF	COMPRESSOR2	OFF	WATER LEVEL2	LOW
HUMDIFIER HEATER2	OFF	DRY HEATER	OFF	DOOR	CLOSED
HUMPTETED HEATED	OFF		OFF	COMPRESSOR	OFF
HUMDIFIER HEATER	OFF	DRY HEATER	OFF	COMPRESSOR1	OFF
HUMDIFIER HEATER	OFF OFF	DRY HEATER DHS RELAY	OFF OFF	COMPRESSOR1 COMPRESSOR2	OFF OFF

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