Thermography Report

Client: - AMBUJA CEMENT LIMITED
RAWAN (C.G.)

Consultants from Tempsens

1. ALPESH PARAKH

Principal Officer from Client's Side

1. Mr. YSG RAO
2. Mr. JITENDRA VERMA

Dates of the assignment at site: 09.06.2008 TO 13.06.2008

Project Objective: -

To find abnormalities in Electrical terminations in live conditions so that it helps the Instrumentation and electrical department to take predictive maintenance during forthcoming shut down

Work done: -

Thermo grams of all the electrical panels, bus bars, electrical joints, mcc, pcc were taken as directed and desired by the client. These thermo grams were then downloaded in the computer for further analysis.

Findings: -

Exceptions were found where some maintenance action is to be taken. While some are at 'Warning' others are at 'Alarm'. The deta ils with suggested maintenance actions are attached with this report. Regular monitoring would enhance reliability.

Acknowledgement: -

Tempsens acknowledges with gratitude the help and support provided by Mr. JITENDRA VERMA and his team without which the objectives of the project would have remained unfulfilled. Tempsens also thank the AMBUJA CEMENT PLANT

TEMPSENS INSTRUMENTS

Sr. No.	Equipment	Max. Temp (°C)	Status	Image No.	Report No.
A	WATER TREATMENT PLANT				
a	COOLING WATER FAN B				
1	COOLING WATER FAN B	92.7	Critical	35	01
2	COOLING WATER FAN B	80.0	Critical	36	02
B	PREHEATER				
A	D.C.CHOKE				
3	PUSHNG TERMINAL	127.4	Critical	37	03
4	PUSHNG TERMINAL	125.8	Critical	38	04
C	PRE HEATER MCC				
a	ROTTER PANEL				
5	ROTTER PANEL	65.1	Semi Critical	39	05
6	ROTTER PANEL	75.4	Critical	40	06
b	KRAMER PANEL				
7	ISOLATOR OF R	72.3	Semi Critical	41	07
D	KILN				
a	KILN TRANSFARMER				
8	KILN TRANSFARMER	66.9	Semi Critical	42	08
E	COOLER MCC				
a	MCC 42				
9	MCC INCOMER	70.8	Semi Critical	43	09
10	MCC INCOMER	65.5	Semi Critical	44	10
b	MCC 33				
11	MCC INCOMER	80.2	Critical	45	11
c	MCC 24				
12	MCC INCOMER	76.4	Semi Critical	46	12
d	MCC 24				
13	L1M 196	68.9	Semi Critical	47	13
14	L1M 108	96.8	Critical	48	14
e	MCC 33				
15	L1M 106	72.6	Semi Critical	49	15
F	COOLER MCC VVF ROOM				
a	L1M 112				
16	L1M 112	74.9	Semi Critical	50	16
b	L1M 110				
17	L1M 110	69.5	Semi Critical	51	17
c	L1M 125				
18	L1M 125	91.0	Critical	52	18
G	COMPRESSOR HOUSE 1				
a	MCC23				
19	K1M 182	62.6	Semi Critical	53	19

Contact us for your thermography survey- export@tempsensindia.com
www.tempsensindia.com

b	MCC 31				
20	L1M 191	80.9	Critical	54	20
c	USS- 2				
21	PCC – 3	102.6	Critical	55	21
d	USS 1				
22	PCC 1	88.4	Critical	56	22
e	FIELD J.B.				
23	E1M 120	117.3	Critical	58	24
24	L1M 196	91.1	Critical	60	26
f	MOTOR T.B.				
25	L1M 196	94.0	Critical	59	25
H	ROW MILL				
a	MAINDRIVE				
26	SLIPRING TERMINAL	89.0	Critical	57	23
I	CEMENT MILL				
a	MCC 61				
27	MCC 61 INCOMER	61.5	Semi Critical	61	27
J	COMPRESSOR HOUSE – 2				
a	MCC 62				
28	MCC 62 INCOMER	70.5	Semi Critical	62	28
29	N2M 159 (FEEDER)	80.8	Critical	63	29
b	MCC 54				
30	MCC 54 INCOMER	66.9	Semi Critical	64	30
c	MOTOR HOUSE				
31	AIR COMPRESSOR (K 1003 B FEEDER)	81.3	Critical	65	31
32	K-1003C (MOTOR TERMINAL)	109.4	Critical	66	32
33	N1M – 159 (M.T.B.)	125.0	Critical	67	33
34	N2M – 159 (M.T.B.)	70.3	Semi Critical	68	34
H	O-SEPA ROOM				
a	N1M 306 PANEL				
35	N1M 306	140.7	Critical	69	35
I	USS-3				
a	PCC 6				
36	MANAV COLONY FEEDER	61.0	Semi Critical	70	36
J	CEMENT MILL MCC				
a	PFIC CONTROL PANEL				
37	PFIC CONTROL PANEL	76.5	Semi Critical	71	37
K	COMPRESSOR HOUSE 1				
a	E1M 120				
38	FIELD J.B.	101.7	Critical	72	38
39	FIELD J.B.	96.3	Critical	73	39
L	MAAN D.G.				
a	L.T. RAW WATER PUMP				
40	L.T. RAW WATER PUMP	60.6	Semi Critical	74	40

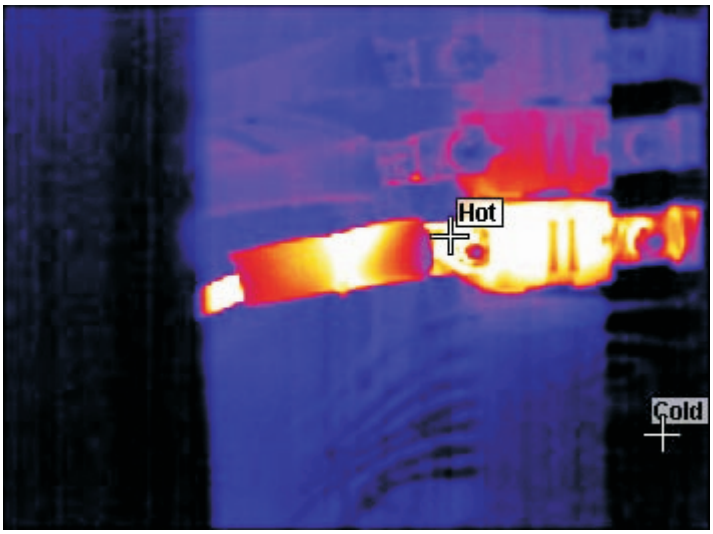
b	HT RAW WATER PUMP				
41	HT RAW WATER PUMP	67.7	Semi Critical	75	41
c	MCC				
42	INCOMER	60.0	Semi Critical	76	42
43	LT COOLONG MOTOR	124.1	Critical	77	43
44	MAIN INCOMER	60.5	Semi Critical	78	44
M	THERMAL POWER PLANT				
a	BOILER MCC				
45	PA FAN 1	75.8	Critical	79	45
b	STG MCC				
46	CEP	66.1	Semi Critical	80	46
c	F.D FEEDER				
47	F.D. MOTOR	90.9	Critical	81	47
d	I.D. FAN				
48	I.D. FAN	71.5	Semi Critical	82	48
49	I.D. FAN	98.1	Critical	85	51
e	F.D. FAN				
50	F.D. FAN	101.9	Critical	83	49
51	F.D. FAN	69.8	Semi Critical	84	50
N	COLONY SUB STATION				
a	GUEST HOUSE LDB 1				
52	GUEST HOUSE LDB 1	65.9	Semi Critical	86	52
b	INCOMING FROM MAIN DB F1/1				
53	INCOMING FROM MAIN DB F1/1	68.9	Semi Critical	87	53
O	ATER TREATMENT PLANT				
a	PW 1004 C				
54	PW 1004 C	64.3	Semi Critical	88	54
b	PW 1004 A				
55	PW 1004 A	81.7	Critical	89	55
P	UTILITY				
a	CENTRE AC UNIT				
56	FEEDER TERMINAL COMPRESSOR NO.1	104.9	Critical	90	56
Q	CRUSHER				
a	FILTER FAN(A1FA01)				
57	FILTER FAN(A1FA01)	131.2	Critical	94	57

THERMOGRAPHY REPORT-02

MAIN LOCATION:- WATER TREATMENT PLANT

AMBIENT TEMP. :- 35°C

Location	Equipment	Date	Max.	Min	Diff.	Avg.
COLLING WATER FAN B	COLLING WATER FAN B	09.06.08	80.0	34.1	45.9	39.0



OBJECTIVE:- **FEEDER TO O/G TERMINAL Y Ø**

BASIC OBSERVATION: - **FEEDER TO O/G TERMINAL Y Ø**
is over heated.

ANALYSIS & RECOMMENDATION:- **FEEDER TO O/G TERMINAL Y Ø**
temp. is very high **it should be attended immediately as per the severity.**

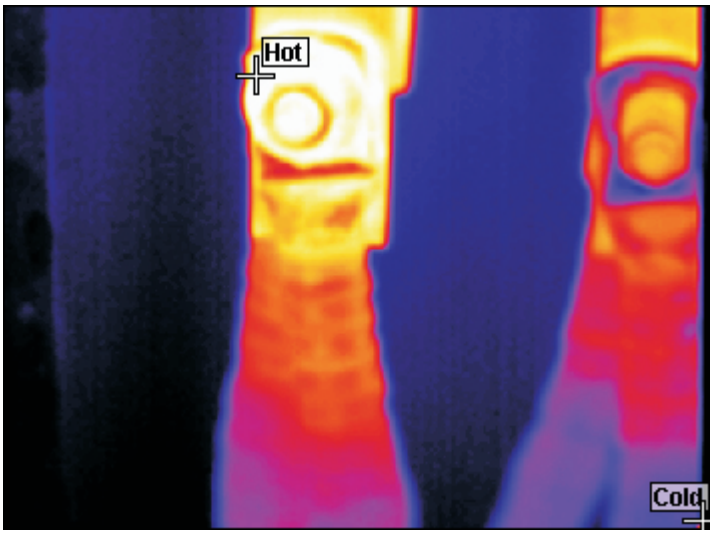
CLIENT ANALYSIS BY: ALPESH **CLIENT REPRESENTATIVE:**

THERMOGRAPHY REPORT-03

MAIN LOCATION:- PREHEATER

AMBIENT TEMP. :- 35°C

Location	Equipment	Date	Max.	Min	Diff.	Avg.
D.C.CHOKE	PUSHNG TERMINAL	09.06.08	127.4	46.6	80.8	68.5



OBJECTIVE:- **NEGATIVE**

BASIC OBSERVATION:- **NEGATIVE** cable joint is over heated.

ANALYSIS & RECOMMENDATION:- **NEGATIVE** temp. is very high **it should be attended immediately as per the severity.**

CLIENT ANALYSIS BY: ALPESH **CLIENT REPRESENTATIVE:**