

DB 6000 Series

FLAMEPROOF MULTI WAY DISTRIBUTION BOX.



Mechanical Data

Material : Aluminium LM6
 Weight : Refer the Dimension Chart
 IP Protection : IP 65 as per IS-12063/1987 (IEC 60529/1989)
 Finish : Anti corrosive Epoxy powder coated
 Cable Entry : Refer Chart.
 Canopy : Optional
 Cover Fixing : Flanged, Bolted
 Hinge : Stainless Steel (Optional)
 Gasket : Neoprene
 Hardware : Stainless Steel

Electrical Data

Terminals : Refer the [terminal chart](#)
 Earthing : External : 2 Nos - M6
 Internal : 1 No - M5

Cable Entry Chart

Entry size (Inches)			DB 6006 F		DB 6024 F		DB 6031 F		DB 6041 F		DB 6033 F	
BSC	NPT / BSP	Metric (mm)	A / B	C / D	A / B	C / D	A / B	C / D	A / B	C / D	A / B	C / D
0.50	0.25	M 16 X 1.5	12	7	16	12	16	16	22	14	21	17
0.75	0.50	M 20 X 1.5	6	3	13	10	13	13	20	12	18	14
1.0	0.75	M 25 X 1.5	5	3	6	4	6	6	18	12	12	9
1.25	1.0	M 32 X 1.5	4	2	4	3	4	4	7	4	7	5
1.50	1.25	M 40 X 1.5	3	2	4	3	4	4	6	4	5	4
1.75	1.50	M 48 X 1.5	-	-	-	-	3	3	5	3	4	3
2.5	2.0	M 63 X 1.5	-	-	-	-	-	-	4	3	-	-
3.0	2.5	M 75 X 1.5	-	-	-	-	-	-	-	-	-	-

Description

Explosion proof junction boxes with detachable covers which are secured to the body by high tensile screws. Available in five sizes, these boxes provide a wide range of termination and distribution facilities. Integrally cast plates are provided for different combinations of cable entries on any of the four sides. Weather proof protection is provided by high quality neoprene 'O' ring gaskets.

GA Diagram

To View the GA Drawing click on the Catalogue No.

[DB 6006 F](#)

[DB 6024 F](#)

[DB 6031 F](#)

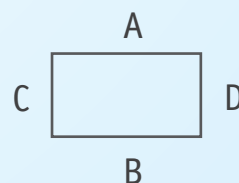
[DB 6033 F](#)

[DB 6041 F](#)

Type of protection	Flame Proof - Exd
Area Classification	Zone 1 & 2
Gas Groups	Group I, II A ,II B
Apparatus Standard	IS-2148:2004(IEC 60079-1/2001)
CIMFR Certificate No.	DB 6006 F : CIMFR/TC/SR/H1082 DB 6024 F : CIMFR/TC/SR/H1271 DB 6031 F : CIMFR/TC/SR/H1030 DB 6033 F : CIMFR/TC/SR/H238 DB 6041 F : CIMFR/TC/SR/H332
Approvals	CCE,BIS

Cat.No.	External Dimn.	Internal Dimn	Weight
DB 6006 F	315 x 215 x 150 mm	250 x 160 x 125 mm	8.6 Kg
DB 6024 F	365 x 290 x 155 mm	300 x 225 x 125 mm	10 Kg
DB 6031 F	365 x 365 x 152 mm	300 x 300 x 125 mm	16 Kg
DB 6033 F	440 x 370 x 165 mm	370 x 300 x 120 mm	17 Kg
DB 6041 F	516 x 382 x 198 mm	450 x 300 x 150 mm	24 Kg

Dimension Chart

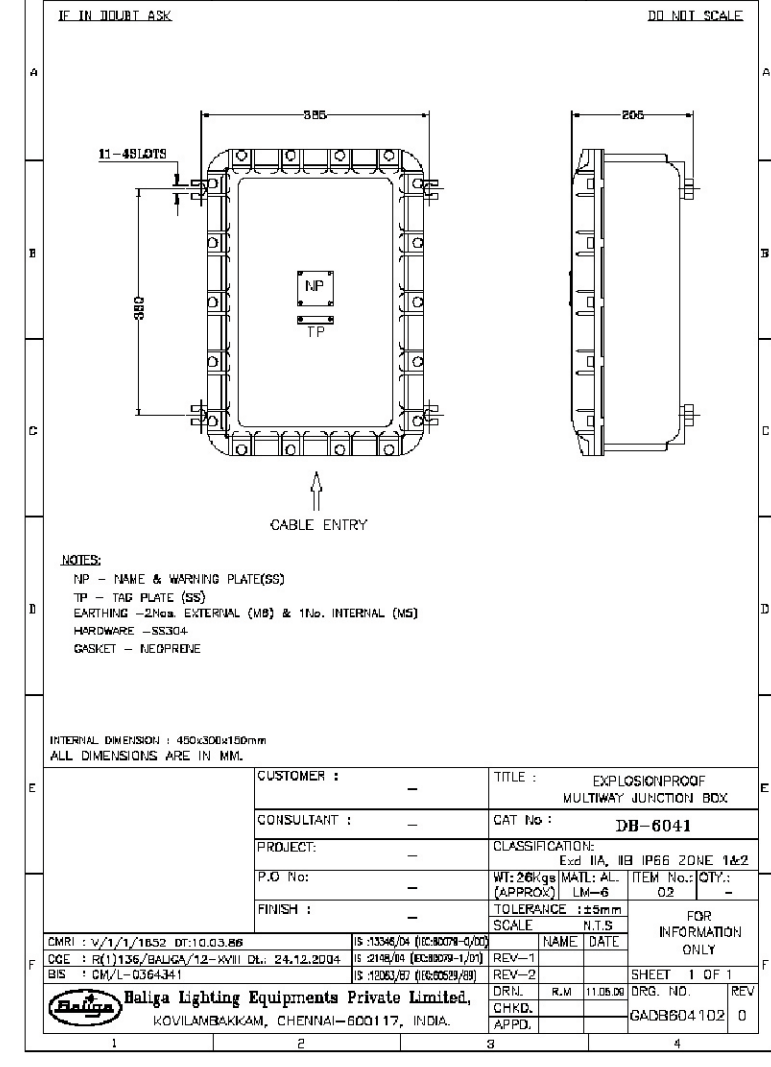
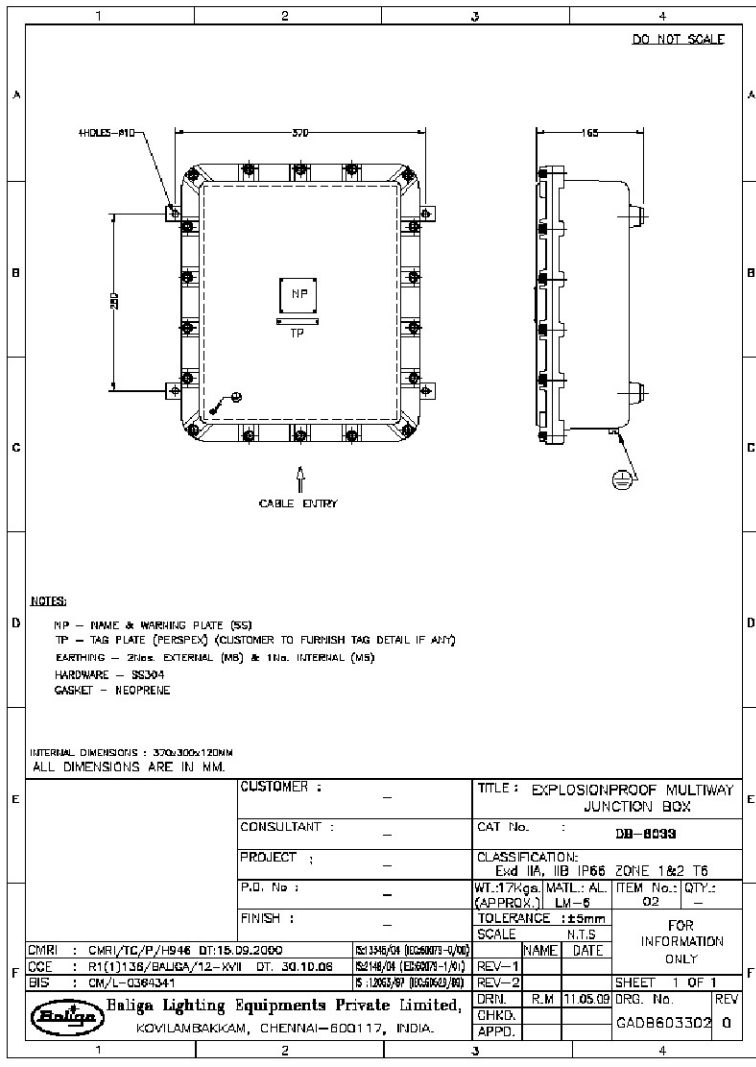
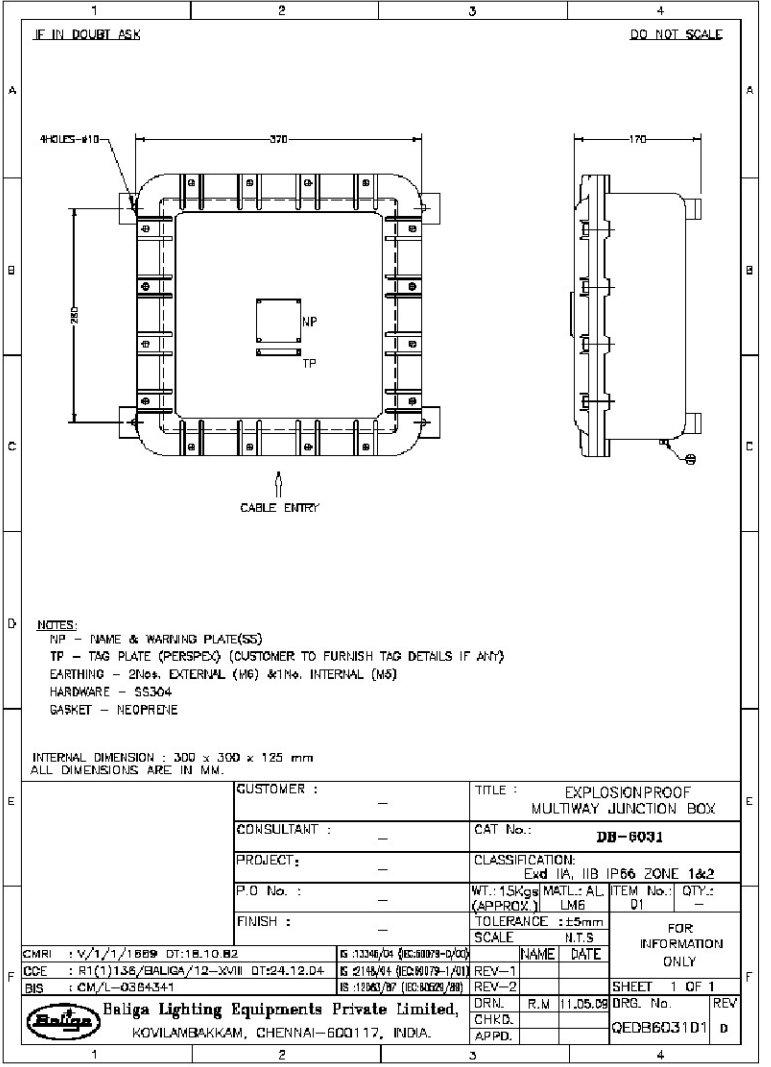
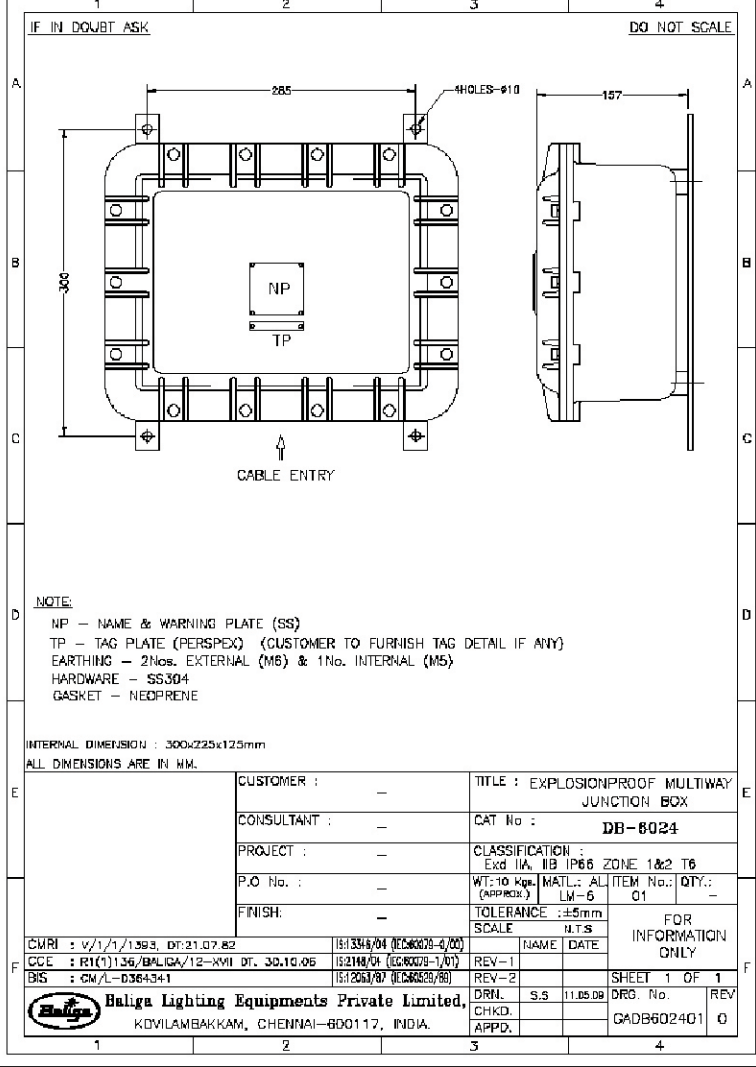


MAXIMUM POSSIBLE CABLE ENTRY DETAILS

CABLE ENTRY SIZE			DB-6006		DB-6024		DB-6031		DB-6033		DB-6039		DB-6041		DB-6036		DB-6642	
ET(BSC)	NPT/BSP	METRIC	A,B	C,D	A,B	C,D	A,B	C,D	A,B	C,D	A,B	C,D	A,B	C,D	A,B	C,D	A,B	C,D
0.5	0.25	M16	12	8	14	10	14	14	18	14	32	24	22	14	32	32	51	33
0.75	0.5	M20	12	6	12	10	12	12	16	12	21	15	20	14	24	24	45	30
1.0	0.75	M25	5	3	5	4	5	5	7	5	18	12	16	10	12	12	24	16
1.25	1.0	M32	4	2	5	3	5	5	6	5	10	8	7	4	10	10	20	14
1.5	1.25	M40	3	2	4	3	4	4	5	4	8	6	6	4	10	10	16	4
2.0	1.5	M50	2	2	3	2	3	3	4	3	4	4	5	3	4	4	7	3
2.5	2.0	M63	–	–	–	–	–	–	–	–	3	2	4	3	3	3	6	4
3.0	2.5	M75	–	–	–	–	–	–	–	–	3	2	5	3	3	3	5	3

MAXIMUM POSSIBLE TERMINAL DETAILS

CAT.No.	MAX CHANNEL LENGTH	MAX NO. OF ROWS	TERMINAL SIZE									
			2.5 SQ.MM	4 SQ.MM	6 SQ.MM	10 SQ.MM	16 SQ.MM	25 SQ.MM	35 SQ.MM	50 SQ.MM	70 SQ.MM	95 SQ.MM
DB-6006	245	1	25	25	20	16	12	12	8	—	—	—
	145	1	10	10	10	8	5	—	—	—	—	—
DB-6024	285	1	32	32	25	20	16	15	12	—	—	—
	210	2	42	42	30	25	20	20	6	—	—	—
DB-6031	285	2	66	66	50	40	32	30	20	8	—	—
	285	2	66	66	50	40	32	30	20	8	—	—
DB-6033	355	2	90	90	68	54	46	40	14	11	—	—
	285	2	66	66	50	40	32	30	20	7	—	—
DB-6039	333	1	40	40	30	25	20	18	13	9	—	—
	233	2	48	48	36	30	24	22	14	5	—	—
DB-6041	435	2	108	108	88	70	58	52	20	12	8	5
	285	3	100	100	75	60	48	45	30	14	4	—
DB-6036	330	2	82	82	60	48	40	36	24	10	5	3
	330	2	82	82	60	48	40	36	24	10	5	3
DB-6642	580	5	226	225	170	130	110	110	68	36	12	10
	380	3	216	216	186	150	125	120	84	44	10	8



केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
बरवा रोड, धनबाद - 826 001, झारखण्ड, भारत



ADDITIONAL FIRST COPY

Central Institute of Mining and Fuel Research

Formerly : Central Mining Research Institute
(Council of Scientific & Industrial Research)
BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CIMFR/TC/SR/H/1022
I.D. No. 747/07

Dated: 12th March, 2008
CODE NO. FLP/204ZY/08

To
M/s. BALIGA LIGHTING EQUIPMENTS PRIVATE LIMITED,
389, Medavakkam Road,
Kovilambakkam,
CHENNAI-600 117 (India).

Sub: Supplementary Testing for REVALIDATION as per IS: 2148-2004 (IEC 60079-1/2001) of your Flameproof-Weatherproof Distribution Junction Box, in cast aluminium alloy LM-6 construction designated by Cat. No. DB 6006/6008 for application in Gas Groups: IIA & IIB and Zone 1 & 2 atmospheres only.

- Report on (REVALIDATION)

Your Ref. No. CMRI/6/091/IIB

dated: 18/12/2007

Dear Sir,

Please find enclosed the **Supplementary Test Report** for REVALIDATION of the above sample as per IS: 2148-2004.

The above apparatus was earlier certified as per IS: 2148-1968 vide CIMFR (Erstwhile: CMRI) Certificate No. V/1/1/1530 Dated: 05/03/1975 and again revalidated as per IS: 2148-1981 vide certificate No. V/Rev/1448 dt. 02/01/1986 mentioned in the schedule of this report.

Charges of **Rs. 9,775/- (Rupees Nine thousand Seven hundred & Seventy five)** only including applicable service charges involved towards the testing/issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.

Thanking you,

Encl.: As above
Supplementary Report for Revalidation in Triplicate
Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

Yours faithfully,

(G. M. PRASAD)
HEAD OF THE DEPARTMENT
TESTING CELL

केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
बरवा रोड, धनबाद - 826 001, झारखण्ड, भारत



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BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CIMFR/TC/SR/H/227
I.D. No. 931/07

Dated: 3rd March, 2008
CODE NO. FLP/204 ZL/08

To
M/S. BALIGA LIGHTING EQUIPMENTS PVT. LTD.,
389, MEDAVAKKAM ROAD, KOVILAMBARKAM,
CHENNAI-600 117

Sub: Supplementary Testing for REVALIDATION as per IS: 2148-2004 (IEC 60079-1/2001) of your Flameproof/Weatherproof Multi Entry Junction Box in cast aluminium alloy LM-6 construction, designated by Cat. No.: DB-6024 for use in Zone 1 & 2 and Gas Groups: IIA & IIB atmosphere only.

- Report on (REVALIDATION)

Your Ref. Appl. No.: CMRI/6/107/IIB

Dated: 19/12/2007

Dear Sir,

Please find enclosed the **Supplementary Test Report** for REVALIDATION of the above sample as per IS: 2148-2004.

The above apparatus was earlier certified as per IS: 2148-1968 vide CMRI Test Report No. V/1/1/1393, Dated: 21/07/1982.

Charges of **Rs. 10,675/- (Rupees Ten thousand Six hundred Seventy five only)** including applicable service charges involved towards the testing/issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.

Thanking you,

Yours faithfully,

Encl.: As above
Suppl. Report for Revalidation in Triplicate
Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

(G. M. PRASAD)
HEAD OF THE DEPARTMENT
TESTING CELL

Page 1 of 6

फोन-निदेशक Director फी ए एक्स PAX फैक्स FAX
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केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
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Central Institute of Mining and Fuel Research

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(Council of Scientific & Industrial Research)
BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CIMFR/TC/SR/H/1030
I.D. No. 930/07

Dated: 3rd February, 2008
CODE NO. FLP/204ZM/08

To,
M/s. BALIGA LIGHTING EQUIPMENTS PRIVATE LIMITED,
389, Medavakkam Road,
Kovilambakkam,
CHENNAI-600 117, India

Sub: Supplementary Testing for REVALIDATION as per IS: 2148-2004 (IEC 60079-1/2001) of your Flameproof-Weatherproof Multiple Entry Junction Box, designated by Cat. No. DB 6031 for application in Gas Groups: I, IIA & IIB and Zone 1 & 2 atmospheres only.

- Report on (REVALIDATION)

Your Ref. No. CMRI/6/103/IIB

dated: 18/12/2007

Dear Sir,

Please find enclosed the **Supplementary Test Report** for REVALIDATION of the above sample as per IS: 2148-2004.

The above apparatus was earlier certified as per IS: 2148-1968 vide then CMRS Certificate No. V/1/1/1689 Dated: 18/10/1982 mentioned in the schedule of this report.

Charges of **Rs. 11,573/- (Rupees Eleven thousand Five hundred Seventy three)** only including applicable service charges involved towards the testing/issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

Kindly acknowledge receipt.

Thanking you,

Encl.: As above
Supplementary Report for Revalidation in Triplicate
Copy to: 1. Head, Flame & Explosion Lab.
2. Bill Section.

Yours faithfully,

(G. M. PRASAD)
HEAD OF THE DEPARTMENT
TESTING CELL

1 of 6

केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
बरवा रोड, धनबाद - 826 001, झारखण्ड, भारत



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(Council of Scientific & Industrial Research)
BARWA ROAD, DHANBAD-826 001, JHARKHAND, INDIA

REGISTERED POST/COURIER SERVICE

No. CIMFR/TC/SR/H/238
I.D. No. 947/07

Dated: 2nd July, 2008
CODE NO. FLP/204 ZF/08

To
M/S. BALIGA LIGHTING EQUIPMENTS PVT. LTD.,
389, MEDAVAKKAM ROAD, KOVILAMBARKAM,
CHENNAI-600 117

Sub: Supplementary Testing for REVALIDATION as per IS: 2148-2004 (IEC 60079-1/2001) of your enclosure for Flameproof cum Weatherproof Enclosure for JUNCTION BOX, in cast aluminium alloy LM-6 construction, designated by Cat. No.: DB-6033 for use in Zone 1 & 2 and Gas Groups: IIA & IIB atmosphere only.

- Report on (REVALIDATION)

Your Ref. Appl. No.: CMRI/6/269/IIB

Dated: 18/12/2007

Dear Sir,

Please find enclosed the **Supplementary Test Report** for REVALIDATION of the above sample as per IS: 2148-2004.

The above apparatus was earlier certified as per IS: 2148-1981 vide CMRI Test Report No. CMRI/TC/P/H/946, Dated: 15/09/2000 and subsequent supplementary/Addendum report nos. mentioned in the schedule of this report.

Charges of **Rs. 6,967/- (Rupees Six thousand Nine hundred Sixty Seven only)** including applicable service charges involved towards the testing/issuing the schedule have been adjusted against the advance deposit made by you.

Kindly arrange to collect the sample within 90 days from the date of receipt of this letter failing which CIMFR would dispose off the sample by public auction without any further NOTICE to you.

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Yours faithfully,

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(G. M. PRASAD)
HEAD OF THE DEPARTMENT
TESTING CELL

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कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday