

## FCP 6000 Series

FLAMEPROOF PANEL BOARD ENCLOSURE



### Mechanical Data

- Material : Aluminium LM6
- IP Protection : IP 65 as per IS-12063/1987 (IEC 60529/1989)
- Finish : Anti corrosive Epoxy powder coated
- Cable Entry : Refer cable entry chart
- Hinge : Stainless Steel (Optional)
- Gasket : Neoprene
- Mounting : Wall mounting mild steel framework
- Hardware : Stainless Steel (SS-304)

### Electrical Data

- Terminals : As per the customer's specification.
- Earthing : External : 2 Nos - M6  
Internal : 1 No - M5

### Cable Entry

ENTRIES	FCP-6000-1		FCP-6000-2		FCP-6000-3		FCP-6000-4		FCP-6000-5		FCP-6000-6	FCP-6000-7		FCP-6000-8	
	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	5	4	10	10	24	10	24	24	40	24	18	40	16	12	
0.75	4	2	8	8	14	8	14	14	24	14	12	24	13	10	
1	4	2	8	8	14	8	14	14	24	14	12	24	8	6	
1.25	2	1	2	2	6	3	6	6	12	6	4	12	6	4	
1.5	2	1	2	2	6	3	6	6	12	6	4	12	3	2	
2	0	0	1	1	5	2	5	5	7	5	3	7	2	1	
2.5	0	0	0	0	2	1	2	2	4	2	1	4	2	1	
3	0	0	0	0	2	1	2	2	4	2	1	4	1	1	

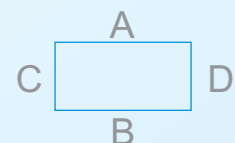
### Description

Explosion proof and weather proof panel enclosure series consisting of a set of 7 enclosures. Each enclosure is of robust construction with adequate metal thickness and flame paths to withstand any internal explosion. The enclosure covers are all hinged and have sufficient metal thickness to carry a wide range of components such as actuators, switch shafts, ammeter glass housing. Individual enclosures are interconnected with a range of sealed explosion proof nipples depending upon the wiring requirements of each panel. The enclosures are completely gasketed for providing a high degree of weather proof protection.

The enclosures are also liberally dimensioned so that a comprehensive range of switches, contractors, fuse switches and transformers can be safely mounted and maintained while all the heat generated is properly dissipated.

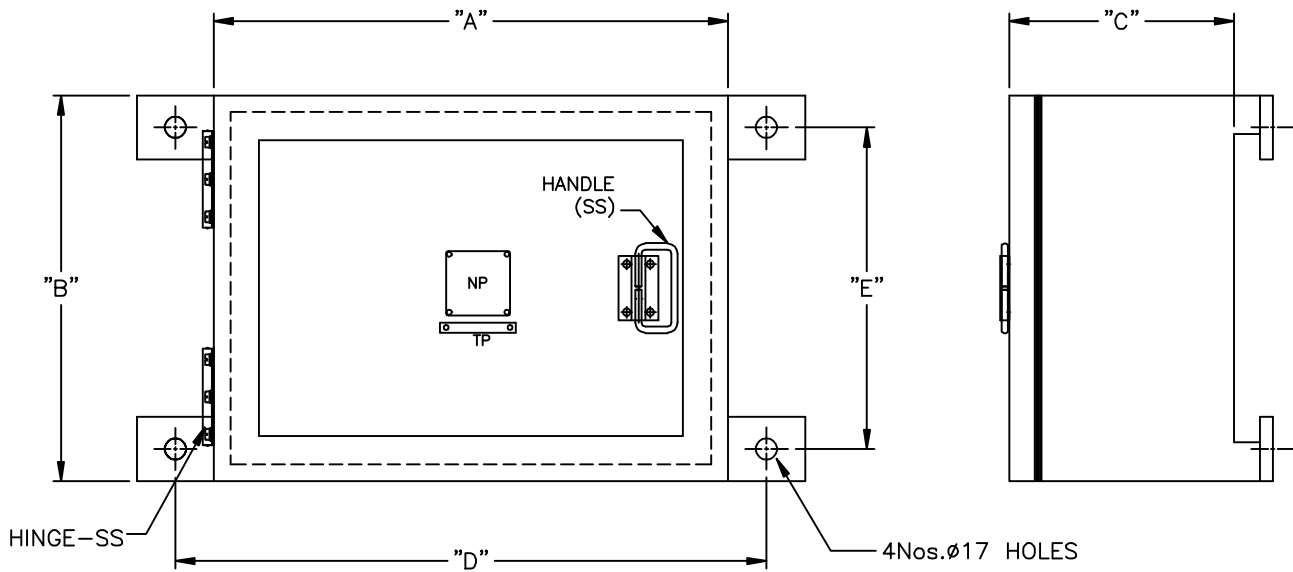
Type of protection	Flame Proof - Exd
Area Classification	Zone 1 & 2
Gas Groups	Group I, II A, II B
Apparatus Standard	IS-2148:2004(IEC 60079-1/2001)
Approvals	CCE,BIS

S.No.	Catalog No.	Length (mm)	Width (mm)	Height (mm)	Weight (kg)	CIMFR Cert No.
1	FCP-6000-1	200	150	100	4.4	CIMFR/TC/SR/396
2	FCP-6000-2	200	200	150	6.4	CIMFR/TC/SR/396
3	FCP-6000-3	400	200	155	12.5	CIMFR/TC/SR/396
4	FCP-6000-4	400	400	175	26.4	CIMFR/TC/SR/396
5	FCP-6000-4R	400	400	255	33.9	CIMFR/TC/SR/396
6	FCP-6000-5	600	400	175	37.2	CIMFR/TC/SR/396
7	FCP-6000-5R	600	400	250	44.9	CIMFR/TC/SR/396
8	FCP-6000-6R	300	300	250	24.4	CIMFR/TC/SR/H263
9	FCP-6000-6	300	300	210	19	CIMFR/TC/SR/H263
10	FCP-6000-7	600	300	170	32.4	CIMFR/TC/SR/H263
11	FCP-6000-7R	600	300	250	36	CIMFR/TC/SR/H263
12	FCP-6000-8	375	275	140	20	CIMFR/TC/SR/H1217



**Max. Terminals Possible ( size )**

<b>Catalog No.</b>	<b>2.5mm2</b>	<b>4.0 mm2</b>	<b>6.0 mm2</b>	<b>10 mm2</b>	<b>16 mm2</b>	<b>35 mm2</b>	<b>50 mm2</b>	<b>70 mm2</b>	<b>90 mm2</b>	<b>120 mm2</b>
FCP-6000-1	50	20	18	15	12	8	0	0	0	0
FCP-6000-2	50	20	18	15	12	8	0	0	0	0
FCP-6000-3	110	45	40	35	25	18	12	12	0	0
FCP-6000-4	110	45	40	35	25	18	12	12	8	8
FCP-6000-4R	110	45	40	35	25	18	12	12	8	8
FCP-6000-5	175	75	65	52	43	28	17	17	12	12
FCP-6000-5R	175	75	65	52	43	28	17	17	12	12
FCP-6000-6	36	36	30	20	16	12	8	8	6	0
FCP-6000-6R	36	36	30	20	16	12	8	8	6	0
FCP-6000-7	175	175	85	45	32	20	12	12	9	0
FCP-6000-7R	175	175	85	45	32	20	12	12	9	0
FCP-6000-8	135	135	120	90	50	32	10	10	9	0



SL.NO	DESCRIPTION	A	B	C	D	E	WEIGHT(Kgs)	CMRI No.
1	FCP6000-1	200	150	100	260	100	4.5	V/1/1/996 DT:26.12.89
2	FCP6000-2	200	200	150	260	150	6.5	
3	FCP6000-3	400	200	155	460	150	12.5	
4	FCP6000-4	400	400	175	460	350	26	
5	FCP6000-4R	400	400	255	460	350	34.5	
6	FCP6000-5	600	400	175	660	350	37.5	
7	FCP6000-5R	600	400	255	660	350	45	
8	FCP6000-7	600	300	175	660	250	25	V/1/1/218 DT:21.05.1990
9	FCP6000-7	600	300	250	660	250	32	
10	FCP6000-6	300	300	150	360	250	13.5	
11	FCP6000-7R	300	300	210	360	250	17	CMRI/TC/H285 DT:19.09.97
12	FCP6000-8	400	300	175	460	250	20	

ALL DIMENSIONS ARE IN MM

<b>NOTE:</b> NP - NAME PLATE & WARNING PLATE (SS) TP - TAG PLATE (PERSPEX) EARTHING - 2Nos. EXTERNAL (M6) & 1No. INTERNAL (M5) HARDWARE - SS304	CUSTOMER:		TITLE: FCP 6000 SERIES				
	CONSULTANT:		CAT No: REFER CHART				
	PROJECT:		CLASSIFICATION: Exd IIB IP65 ZONE 1&2				
	P.O.No:		WT: REFER CHART	MATL: AL. LM-6	ITEM No: -	QTY: -	
	FINISH: EPOXY POWDER COATED LIGHT GREY (SHADE-631) OF IS:5		TOLERANCE: ±5mm SCALE: N.T.S		FOR INFORMATION ONLY		
CMRI: REFER CHART		IS:13346/04 (IEC:60079-0/00)		NAME			DATE
CCE : R1(1)136/BALIGA/12-XVIII DT. 24.12.2004		IS:2148/04 (IEC:60079-1/01)		REV-1			
BIS : CM/L-0364341.		IS:12063/87 (IEC:60529/89)		REV-2			
<b>Baliga Lighting Equipments Private Limited,</b> KOVILAMBAKKAM, CHENNAI-600 117, INDIA.		DRN.	S.S	08.05.09	DRAWING No:	REV	
		CHKD.			G0FCP60001	0	
		APPD.					

# केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)  
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/ 396  
I.D. No. 943/07

Dated: 11 August, 2008  
CODE NO.FLP/204ZJ/08

To,  
BALIGA LIGHTING EQUIPMENTS PRIVATE LIMITED,  
389, Mdedavakkam Road,  
Kovilambakkam  
**CHENNAI-600 117**

**Sub:** Supplementary Testing for **REVALIDATION** as per IS: 2148- 2004 (IEC 60079-1/2001) of your **Flameproof cum Weatherproof Distribution Board** as designated by **Cat. No.: FCP-6000 Series ranging from Cat. No. FCP-6000-1 to FCP-6000-5** in cast aluminium alloy LM-6 construction for use in Gas Groups: IIA & IIB and Zone 1 & 2 atmospheres only.

**- Report on (REVALIDATION)**

**Your Ref. No. CMRI/6/173/IIB**

**Dated: 21/12/2007**

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, supplementary Certificate No. V/1/1/996, Dated: 26/12/1989 mentioned in the schedule of this report.

Charges of **Rs. 24,540/-** (**Twenty four thousand five hundred forty**) 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,

  
**(G. M. PRASAD)**

HEAD OF THE DEPARTMENT  
**TESTING CELL**

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

1 of 10

फोन-निदेशक Director  
Ph.: 0091-326-2202326/2203043

पी० ए० एक्स PAX  
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कार्यालय के दिन : सोमवार से शुक्रवार तक Working days : Monday to Friday