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Test & Assessment Report No.: IN/CIMFR/TR21/ **H319**

Dated: **11** January, 2021

Equipment ID No.: 726/20

ULR No.: TC59622100000015F

CODE NO. FES/111/20-21

To  
M/s. SIGMA INDUSTRIES  
SPECIAL SHED NO. 15/2/A, GIDC-I,  
SHANKER TEKRI,  
JAMNAGAR - 361 004

Subject: Type Examination Certificate along with test assessment report of FLP-WP (IP-66) Double Compression type Cable Gland, in Aluminium Alloy LM-6 construction as designated by Cat No.: CGF01 SS A (M12) to CGF016 (M110) as per IS/IEC 60079-1:2014 for use in Gas Group: IIB, EPL Gb atmosphere.

- (Test Report)

Your Ref. Appli. No.: SI/FLP/001/20-21

Dated: 26/05/2020

Dear Sir,

Please find the enclosed Type Examination Certificate along with test assessment report of the above sample submitted by you.

*This Institute reserves the right to review, amend or withdraw this 'Test Report' at any time, if considered necessary in the interest of safety.*

Charges of Rs. 1,36,668/- (Rupees One Lakh Thirty Six Thousand Six Hundred Sixty Eight Only) including applicable GST involved towards the testing 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 of the samples by public auction without any further NOTICE to you.

Kindly acknowledge the receipt.

Thanking you.

Yours faithfully,

*S. K. Mondal*  
11/01/2021

(S. K. MONDAL)  
HOS  
TESTING CELL

Encl: As above.

1. Test assessment report in Triplicate
2. Type Examination Certificate

Copy to: 1. Head, Flameproof & equipment Safety  
2. Bill section



सीएसआईआर - केंद्रीय विज्ञान एवं इंधन अनुसंधान संस्थान  
CSIR - CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)  
(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)

बारवा रोड, धनबाद, झारखण्ड - 826015, भारत  
BARWA ROAD, DHANBAD, JHARKHAND - 826015, INDIA

ज्वालासह एवं उपकरण सुरक्षा / FLAMEPROOF & EQUIPMENT SAFETY  
परीक्षण प्रमाण पत्र / TEST CERTIFICATE



NABL Certificate No.  
TC-5962

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FORMAT NO.: (CIMFR: DQM: FLP02: F-01:REV-01)  
(Flameproof & Equipment Safety)

Equipment ID No.: 726/20

ULR No.: TC596221000000015F

Code No.: FES/111/20-21

Test & Assessment Report No.: IN/CIMFR/TR21/H.319

Dated: 11 January, 2021

Application Ref. No.: SI/FLP/001/20-21

Dated: 26/05/2020

1. Applicant : M/S. SIGMA INDUSTRIES,  
SPECIAL SHED No. 416/1, G.I.D.C-1  
SHANKER TEKRI, JAMNAGAR-361004
2. Manufacturer : Same as above.
3. Equipment : FLP-WP (IP-66) Double Compression type Cable Gland.
4. Designated by : Cat No.: CGF01 SS A (M12) to CGF016 (M110).
5. Type of Protection : Ex d for Gas Group IIB, EPL Gb.
6. Electrical ratings : NA.
7. Temperature Class : NA.
8. Degree of Ingress Protection : IP-66.
9. Material of Construction : Aluminium Alloy LM-6.
10. Description of the equipment: The FLP-WP (IP-66) Double Compression type Cable Gland, Cat No.: CGF01 SS A (M12) to CGF016 (M110) in Aluminium Alloy LM-6 construction mainly consists of Gland body nut, Neoprene seal for inner seath, skid nylon washer, Armour clamping ring, gland nipple, Armour clamping cone, etc. as given in relevant design drawings. The minimum uncompressed axial sealing height of neoprene rubber inner sealing ring provided in the cable gland. The cable gland is fitted with cable entry (hole) of a tested & certified FLP enclosure and maintaining 25mm axial length and min. 15 full thread of 1.5mm pitch engaged thread internal entry size.
11. Name plate and warning inscription: The name-cum-warning inscription plate and rating plate made of Aluminium Alloy LM-6 is permanently encarved on the body of enclosure.
12. Drawings: The unit is designed and constructed as flameproof and weatherproof in accordance with the following drawing conforming to the requirements of IS/IEC 60079-0:2011, IS/IEC 60079-1: 2014 and IS/IEC 60529-2001 (Reaffirmed 2014).

Sl. No.	Drg. No.	Title	Rev.	Sheet	Date
1.	SI/CGF/2012-13/REV-1	CGS MAKE FLAMEPROOF (IP-66) DOUBLE COMPRESSION CABLE GLANDS FOR GROUP IIB	0	1 of 1	06/11/2019

13. Any other relevant information:

- i) As per Clause 4.2 Note – 2 of IS/IEC 60079-0:2011 the equipment mark IIB is suitable for application requiring IIA equipment.

*Handwritten signature*

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CSIR-Central Institute of Mining and Fuel Research

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बरवा रोड, धनबाद - 826015, झारखण्ड, भारत / Barwa Road, Dhanbad - 826015, Jharkhand, India

ज्वालासह एवं उपकरण सुरक्षा / FLAMEPROOF & EQUIPMENT SAFETY

परीक्षण रिपोर्ट / TEST REPORT

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- ii) The material of construction of the equipment may be CI/MS/SS/Brass instead of Aluminium Alloy LM-6 construction.
- iii) Equal and equivalent medium class fit NPT threads of medium class fit conforming to requirements of ANSI/ASME B1.20.1 may be used instead of metric threads conforming to ISO 965-1 & 965-3 as per Clause No. 5.3 & 13 of IS/IEC 60079-1:2014.
- iv) As per clause no. C.2.2.1, Note-1 of Annex-C of IS/IEC 60079-1:2014, the allowance for use of "other external thread types" is for the manufacture of replacement entry devices for equipment in existing installations only that incorporate internal thread types that are no longer permitted by the current addition of IEC 60079-1.
- v) Cable Glands with following sizes and Cat. No. may be used:

Gland Size (Cat. No.)	Dia "A" (min.)	Nipple/Thread size (mm)	Length (max.) mm	"D"	Suitable cable overall dia
CGF 01 SS A	8.00	M 12	25.00		10.00
CGF 01 SS B	8.00	M 16	25.00		12.50
CGF 01 SS	8.50	M 20	25.00		12.50
CGF 01 S	10.00	M 20	25.00		16.00
CGF 01	12.00	M 20	25.00		17.50
CGF 01 A	12.00	M 25	25.00		17.50
CGF 02	14.00	M 25	25.00		19.50
CGF 02 A	14.00	M 20	25.00		19.50
CGF 03	17.00	M 25	25.00		22.00
CGF 04	20.00	M 25	25.00		25.00
CGF 04 A	20.00	M 32	25.00		25.00
CGF 05	24.00	M 32	25.00		29.00
CGF 05 A	24.00	M 40	25.00		29.00
CGF 06	27.00	M 40	25.00		32.00
CGF 06 A	27.00	M 32	25.00		32.00
CGF 07	30.00	M 40	25.00		36.00
CGF 08	35.00	M 50	25.00		40.00
CGF 09	40.00	M 50	25.00		45.00
CGF 010	44.00	M 50	25.00		51.00
CGF 010 A	44.00	M 50	25.00		51.00
CGF 011 A	50.00	M 63	25.00		56.00
CGF 011	54.00	M 63	25.00		59.00
CGF 012	60.00	M 63	25.00		66.00
CGF 013 A	66.00	M 75	25.00		71.00
CGF 013	72.00	M 82	25.00		77.00
CGF 014	78.00	M 90	25.00		83.00
CGF 015	88.00	M 100	25.00		93.00
CGF 016	98.00	M 110	25.00		104.00

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ज्वालासह एवं उपकरण सुरक्षा परीक्षण रिपोर्ट / FLAMEPROOF & EQUIPMENT SAFETY TEST REPORT

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14. Declaration by the Applicant/Manufacturer:

(i) As to standards with which the equipment complies in respect of:

- Electrical equipment for Potentially Explosive atmosphere – General requirements: IS/IEC 60079-0: 2011
- As to flameproof protection IS/IEC 60079-1: 2014
- Ingress protection as per IS/IEC 60529: 2001 (Reaffirmed 2014).

(B) Declaration by the manufacturer ate as follows:

- Tensile test and sealing test of cable glands are conducted at manufacturer site as per Annexure 'A' of IS/IEC 60079-0:2011 and complies.
- Ageing test of cable glands are conducted at manufacturer site as per Annexure 'A' of IS/IEC 60079-0:2011 and complies.
- Torque test (Mechanical Test) of cable glands are conducted at manufacturer site as per Annexure 'A' of IS/IEC 60079-0:2011 and complies.

*However no sample of the alloy was drawn from the prototype enclosure for verifying its chemical composition declared by the manufacturer.*

15. Documents/Samples Submitted : i) Application form ii) Drawings iii) Prototype sample

16. Condition of sample received: Good

17. Compliance of prototype or sample with documents: The test sample of cable glands submitted for the type tests complies with the manufacturers documents referred above.

Note: CIMFR has however not checked and tested the compliance of the equipment to any standard other than the above standards.

SCOPE OF THE TEST CERTIFICATE

The Test Certificate issued by CIMFR certifies that the equipment has been found to comply with the definition of Flameproof-Weatherproof equipment contained in the relevant Standard specifications. They do not vouch for the quality of the equipment in any other respect. The present test report pertains to the sample received only.

*This Institute reserves the right to review, amend or withdraw this Test Report at any time if considered necessary in the interest of safety.*

*[Signature]*

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ज्वालासह एवं उपकरण सुरक्षा परीक्षण

परिष्कारित एवं उपकरण सुरक्षा परीक्षण

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## REPORT OF TEST

Date of Test: 14/12/2020

Result #A: Tests as per IS/IEC 60079-0: 2011:

Type Tests			
Clause	Tests	Remarks	Results (Complies, P- Pass, NA-Not Applicable, F-Fail) References
1	Scope		Complies
2	Normative references		Complies
3	Terms and definitions		Complies
4	Equipment grouping	Gas Group: IIB, EPL Gb	Complies
5	Temperature		
5.1.1	Ambient Temperatures	- 20 °C to +50 °C Amb.	Complies
6	Requirements for all electrical equipment		Complies
6.6	Electromagnetic and ultrasonic energy radiating equipment.		NA
7	Non-metallic enclosures and non-metallic parts of enclosures.		Complies
7.2	Thermal Endurance		Complies
8	Metallic Enclosure and metallic part of End	Aluminium Alloy LM-6	Complies
9	Fasteners		NA
10	Interlocking devices		NA
11	Bushings		NA
12	Materials used for cementing		NA
13	Ex components		Complies
14	Connection facilities and terminal compartments		NA
15	Connection facilities for earthing and bonding conductors		NA
16	Entries into enclosures		Complies
17	Supplementary requirements for rotating machines		NA
18	Supplementary requirements for switchgear		NA
19	Supplementary requirements for fuses		NA
20	Supplementary requirements for plugs and socket outlets and connectors		NA
21	Supplementary requirements for luminaries		NA
22	Supplementary requirements for cap lights and hand lights		NA
23	Equipment incorporating cells and batteries		NA
24	Documentation		Complies
25	Compliance of prototype or sample with documents		Complies
26	Type tests		Complies
26.3	Tests in explosive test mixtures		
26.3	Tests for Flameproof (Ex 'd') protection	Verification for Compliance to Ex 'd' requirements as per IS/IEC 60079-1: 2014	Complies

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U.I.R No.: TC596221000000015F

Code No.: PES/111/20-21

26.4	Test of enclosures		
26.4.2	Resistance to Impact		Refer Result#A1
26.4.3/26.4.4	Drop test	(not a handheld equipment or portable device)	NA
26.4.5	Degree of protection (IP) by Enclosures		
26.4.5	Test of IP of equipment	IP 66	Refer Result#A2
26.5	Thermal tests		
26.5.1	Temperature measurement		NA
26.5.2	Thermal shock test		NA
26.6	Torque test for bushings		NA
26.7	Non-metallic enclosures or non-metallic parts of enclosures		
26.8	Thermal endurance to heat		Complies
26.9	Thermal endurance to cold		
26.10	Resistance to light		NA
26.11	Resistance to chemical agents for Group I Electrical Equipment	-----	NA
26.12	Earth continuity test in non-metallic enclosure		NA
26.13	Surface resistance test of parts of enclosures of Non metallic materials	-----	NA
26.14	Measurement of capacitance		NA
26.15	Verification of ratings of ventilating fans		NA
26.16	Alternative qualification of elastomeric sealing O-rings		NA
27	Routine tests	Manufacturer's responsibility: Compliance to prototype of the product and physical measurement of gap and flamepath and overpressure test at the pressure 30kg/cm <sup>2</sup> given in earlier Test Report for every sample.	
28	Manufacturer's responsibility	Conformity of the equipment to the applicable standards	Complies
29	Marking		(Ex d IIB Gb)
30	Instructions	Instruction related to use, installation, maintenance, adjustment to be provided by the manufacturer along with the equipment.	

Result#A1: 1 kg mass of harden steel fallen vertically on the surface of the Ex'd' enclosure to create impact energy for Group I and II equipment.

Result#A2: Neoprene gasket (63mm thick) is provided at the end of the each joint for weatherproof (IP-66) degree of protection. Tests have been conducted as per IS/IEC 60529:2001 (Reaffirmed 2014) as tabulated below for IP-66 degree of protection.

Sl. No	Type tests			Results
1.	Dust Test (First Numeral 6)	Clause 13.4 & 13.6	No dust had accumulated inside the enclosure.	Pass
2.	Water Test (Second Numeral 6)	Clause 14.2.6	No water had accumulated inside the enclosure.	Pass

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ज्वालासह एवं उपकरण सुरक्षा / FLAMEPROOF & EQUIPMENT SAFETY

परीक्षण रिपोर्ट / TEST REPORT

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(Flameproof & Equipment Safety)

Equipment ID No.: 726/20

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Result #B: Tests in explosive mixtures: Tests for type of protection Ex 'd' as per IS/IEC 60079-1:2014.

Type Tests			
Clause No.	Description and relevant tests	Remarks	Results (Complies, P- Pass, NA-Not Applicable, F-Fail) References
1	Scope		Complies
2	Normative references		Complies
3	Terms and definitions		Complies
4	Level of protection (Equipment Protection Level, EPL)	Gas Group IIB, EPL Gb	Complies
5	Flameproof joints	Threaded joint	Complies
6	Sealed joints		
6.1	Cemented joints		NA
6.1.2	Mechanical strength		NA
7	Operating rods		NA
8	Supplementary requirements for shafts and bearings		NA
9	Light transmitting parts		NA
10	Breathing and draining devices which form part of a flameproof enclosure		NA
11	Fasteners and openings		NA
12	Materials	Aluminium Alloy LM-6	Complies
13	Entries for flameproof enclosures		Complies
14	Verification and tests		Complies
15	Type Tests		
15.1	General		NA
15.2	Tests of ability of the enclosure to withstand pressure		
15.2.1	General		Complies
15.2.2	Determination of Explosion Pressure (Reference Pressure)		NA
15.2.3	Overpressure Test		Complies
15.3	Test for non-transmission of an internal ignition		
15.3.1	General		Complies
15.3.2	Electrical equipment of Groups IIB	(Refer Result #B1)	Complies
15.3.3	Electrical equipment of Group IIC		NA
15.4	Tests of flameproof enclosures with breathing and draining devices		
15.4.1	General		NA
16	Routine tests	To be conducted by the manufacturer overpressure test at the pressure 30kg/cm <sup>2</sup> given in every sample.	
17	Switchgear for Group I		NA
18	Lamp holders and lamp caps		NA
19	Non-metallic enclosures and non-metallic parts of enclosures		
19.1	General		NA
19.2	Resistance to tracking and creepage distances on-internal surfaces of the enclosure walls		NA
19.3	Requirements for type test		NA
19.4	Test of erosion by flame		NA
20	Marking		(Ex d IIB Gb)
20.2	Caution and warning markings		NA
21	Instruction	The manufacturer shall supply instruction manual of the equipment complying IS/IEC 60079-0:2011.	

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Result #B1: Test for Non transmission of internal ignition:

Gas Mixture: Test with 37% Hydrogen in air for Gas Gr. IIB

No. of Tests: 5 tests of each cable gland fitted with enclosure.

Test Condition: Clause 15.2. Table 6 and 15.2.1.1 (No recompression required)

Five tests for non-transmission of flame were conducted on a Group IIB FLP/WP enclosure fitted with FLP/WP (IP-66) Cable glands. The gas mixture used for this test is as given below. In each test the outer explosive mixture of the FLP/WP enclosure in the test chamber was not ignited when an internal explosion occurred inside FLP/WP enclosure.

Cable Gland	Test Ref. Nos.	Gas Group	Gas Mixture % in Air	No. of Test	Result
Cat. CGF 01SS A	EIT/7262001 to EIT/7262005	IIB	37% of Hydrogen	Five	Pass
Cat. CGF 04	EIT/7262006 to EIT/7262010	IIB	37% of Hydrogen	Five	Pass
Cat. CGF 09	EIT/7262011 to EIT/7262015	IIB	37% of Hydrogen	Five	Pass
Cat. CGF 012	EIT/7262016 to EIT/7262020	IIB	37% of Hydrogen	Five	Pass
Cat. CGF 016	EIT/7262021 to EIT/7262025	IIB	37% of Hydrogen	Five	Pass

**CONCLUSION:** The FLP-WP (IP-66) Double Compression type Cable Gland, in Aluminium Alloy LM-6 construction as designated by Cat No.: CGF01 SS A (M12) to CGF016 (M110) requirements for flameproofness as per IS/IEC 60079-1:2014 and general requirements as per IS/IEC 60079-0:2011 is deemed to be suitable for use in Gas Group: IIB, EPL Gb.

Reported By

Checked & Approved By

*(Signature)*

(A. KUMAR)

Technical Officer

Dated: 07/01/2021 January, 2021

Flameproof & Equipment Safety

CSIR - Central Institute of Mining & Fuel Research

Barwa Road, DHANBAD - 826 015,

(JHARKHAND), INDIA

*(Signature)*  
07/01/2021

(A. K. SINGH)

Chief Scientist & HORG

Flameproof & Equipment Safety



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बरवा रोड, धनबाद - 826015, झारखण्ड, भारत



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( Council of Scientific & Industrial Research )  
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Dated: 02/02/2021

No. CIMFR/FES/Amend/20-21/75

To  
M/S. SIGMA INDUSTRIES,  
SPECIAL SHED No. 416/1, G.I.D.C-1  
SHANKER TEKRI, JAMNAGAR-361004

**Subject:** Amendment to FLP-WP (IP-66) Double Compression Type Cable Gland, in Aluminium Alloy LM-6 construction designated by Cat. No. CGF01 SS A (M12) to CGF016 (M110) as per IS/IEC 60079-1:2014 suitable for use in Gas Group: IIB, EPL Gb atmosphere.

- AMMENDMENT

Dated: Nil

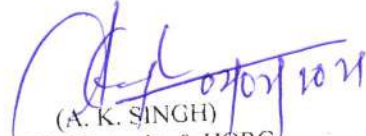
Your Ref. No.: E-mail

Dear Sir,

There is a typographical error in the CIMFR Test & Assessment Report No.: IN/CIMFR/TR21/H319 dated: 11/01/2021 and Test Certificate No. No.: CMF 21 INEx0015 dated: 07/01/2021 in applicant address should be read as M/S. SIGMA INDUSTRIES, SPECIAL SHED No. 416/1, G.I.D.C-1 SHANKER TEKRI, JAMNAGAR-361004 instead of M/S. SIGMA INDUSTRIES, SPECIAL SHED No. 15/2/A, G.I.D.C-1, SHANKER TEKRI, JAMNAGAR-361004.

This Amendment should be read in conjunction with CIMFR Test & Assessment Report No.: IN/CIMFR/TR21/H319 dated: 11/01/2021 and Test Certificate No. No.: CMF 21 INEx0015 dated: 07/01/2021.

Yours faithfully,

  
(A. K. SINGH)  
Chief Scientist & HORG  
Flameproof & Equipment Safety

CC: Head, Testing Cell

EPABX : 0091-326-229-6027/6028/6029

Fax : 0091-326-229-6025

Working Days : Monday to Friday - Website : www.cimfr.nic.in