



Government of India
Ministry of Commerce & Industry
Petroleum & Explosives Safety Organisation (PESO)
5th Floor, A-Block, CGO Complex, Seminary Hills,
Nagpur - 440006

E-mail : explosives@explosives.gov.in
 Phone/Fax No : 0712 -2510248, Fax-2510577

Approval No : A/P/HQ/GJ/104/5916 (P533844)

Dated : 28/04/2022

To,

M/s. RAAS EQUIPMENT PRIVATE LIMITED,
 SurveyNo,189/1/P and 189/2/P,
 Sub Plot No. 2,3 and Sub Plot No. 7,8, Iyava,
 Sanand,
 Taluka: Ahmedabad,
 District: AHMEDABAD,
 State: Gujarat,
 PIN: 382100

Sub : Approval for Electrical Components of CNG Compressor Model RAAS.M160 under Petroleum Rules, 2002-reg.

Sir(s),

Please refer to your letter No. OIN1055269 dated 15/04/2022 on the subject.

There would be no objection to your supplying subject manufactured item/equipment by you conforming to according to EN 60079-0 : 2012/A11 : 2013, EN 60079-1 : 2014, EN 60079-11 : 2012, IEC 60079-0 : 2011, IEC 60079-1 : 2014, IEC 60079-11 : 2011, IS/IEC 60079-0 : 2004, IS/IEC 60079-1 : 2007, standards and covered under Certificate No. dted. The above shall be comprising of following approved type of electrical components as described below, the subject manufactured items is suitable for **Zone 1 only**:-

Sr.No	Description (Components Description)	Make	Safety Protection	Agency	Certificate No. & Date
1	Transmitter Type *700*1*****	Micro Motion Inc.	Ex db [ib] IIB + H2 T6 Gb	DEKRA Testing and Certification GmbH	DMT 01 ATEX E 082 X Date 29/04/2019
2	3 Phase FLP Induction motor model E315L	CG Power and Industrial Solutions Limited	Ex db IIB T6	Electronics Regional Test Laboratory (East)	ERTL (E) TES/C299/0016/12-19 Date 01/05/2020
3	3 Phase FLP Induction motor model E132M	CG Power and Industrial Solutions Limited	Ex db IIB T6	Electronics Regional Test Laboratory (East)	ERTL (E) TES/C299/0007/12-19 Date 19/03/2020
4	Sensor Type F***** H***** R** ***** CNG050***	Micro Motion Inc.	Ex ib IIB/IIC T6/T5/T4... T1 Ga/Gb	DEKRA EXAM GmbH	BVS 18 ATEX E 096 X Date 11/12/2018
5	FS20X	Honeywell Analytics Inc	Ex db IIC T6... T4* Gb	FM Approvals Europe Ltd.	FM14ATEX0058X Date 18/09/2020
6	FGM-6200	RAE Systems by Honeywell	Ex db IIC T6 Gb	CML B.V.	CML 19ATEX1375X Date 02/08/2019
7	Pressure Transmitter Type IS-3	WIKA Alexander Wiagand SE & Co. KG	Ex ia IIA T4/T5/T6 Ga, Ex ia IIC T4/T5/T6 Ga	DEKRA Testing and Certification GmbH	BVS 14 ATEX E 035 Revision 3 Date 11/11/2019
8	FLP/WP Enclosures for soot Blower Panel Board Type	Flameproof Equipments Pvt. Ltd.	Ex d IIB T5	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/H485 Date 05/10/2012
9	FLP 3 Phase Squirrel Cage AC Induction Motor Frame	Bharat Bijli Limited	Ex d IIB T4 Gb	Central Institute of Mining and Fuel Research	IN/CIMFR/TR20/765 Date 06/03/2020
10	FLP Three Phase Squirrel Cage AC Induction Motor,	Bharat Bijli Limited	Ex d IIB T5.. T3 Gb	Karandikar Laboratories Pvt Ltd	KLPL/Ex/19-043X Issue No. 02 Date 06/09/2020
11	FLP-WP Panel Board cat No. RCP/221	Sudhir Switchgears Private Limited	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/141 Date 03/05/2012
12	Proline Promag 300/500, Proline Promass 300/500, C	Endress+Hauser Flowtec AG	Ex db ia [ia Ga] IIC T6.T1 Ga/Gb	CSA Group Netherlands B.V.	Sira 16ATEX2219X Issue 6 Date 15/10/2019
13	FLP/WP Fluorescent tube light fixture model LT31..	FCG Flameproof Control Gears Pvt. Ltd.	Ex d IIB T6..T4 Gb	Central Institute of Mining and Fuel Research	CMF 20 INEx 0247 Issue No. 0 Date 16/07/2020
14	FLP/WP Conduit Accessories Type No. 6.. Series	FCG Flameproof Control Gears Pvt. Ltd.	Ex db IIB Gb	Central Institute of Mining and Fuel Research	CMF 21 INEx 0147 Issue No. 0 Date 28/04/2021
15	FLP-WP Double Compression Type Cable Glands Type N	FCG Flameproof Control Gears Pvt. Ltd.	Ex db IIC Gb	Central Institute of Mining and Fuel Research	CMF 21 INEx 0354 Date 21/09/2021
16	FLP-WP Junction Box Cat No. SSPL/JB/104	Shyaam Switchgear (P) Limited	Ex d IIB T6 Gb	Central Institute of Mining & Fuel Research	CMF 19 INEx 0077 Issue No. 0 Date 08/01/2020
17	FLP-WP Reverse/Forward/Stop Control Station Cat No	Sudhir Switchgears Private Limited	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/533 Date 07/08/2012
18	Measuring systems type Promass *** **_***, CNG mas	Endress+Hauser Flowtec AG	Ex db [ia Ga] IIC T1-T6 Gb	DEKRA EXAM GmbH	IECEx BVS 06.0019X Issue No. 4 Date 15/01/2018
19	FLP/WP Multipurpose push button station Type No. P	FCG Flameproof Control Gears Pvt. Ltd.	Ex db IIC T6 Gb	Central Institute of Mining and Fuel Research	CMF 21 INEx 0277 Issue No. 0 Date 20/07/2021
20	FLP Solenoid junction box ND with LED , horizontal	Rotex Automation Limited	Ex d IIC T6..T4	Karandikar Laboratories Pvt. Ltd.	KLPL/Ex/R12-007 Date 17/07/2017
21	FLP-WP Enclosure for Thermocouple housing/RTD head	Kaysons Techno Equipments Pvt. Ltd.	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/H642 Date 16/02/2012

ISC "Electrostandart" Namko 06ATEX1219X

22	IPES IR/UV	JSC Electronstandart-Pribor"	EEx d IIC T4	Nemko	INSTRUMENTATION Date 14/01/2020
23	Gas Analyser SGOES	JSC Electronstandart-Pribor	EEx d IIC T4	Nemko	Nemko 13 ATEX 1355 Date 25/11/2014
24	FLP/WP Enclosure for Loop Power Indicator Type No.	Flameproof Equipments Pvt. Ltd.	Ex d IIC T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/1429 Date 24/01/2013

This Approval is granted subject to observance of the following conditions:-

- 1) The design and construction of the equipment shall be strictly in accordance with description, condition and drawings as mentioned in the Test Reports referred to above.
- 2) The equipment shall be used only with approved type of accessories and associated apparatus.
- 3) Each equipment shall be marked either by raised lettering cast integrally or by plate attached permanently to the main structure to indicate conspicuously:-
 - (a) Name of the manufacturer
 - (b) Name and number by which the equipment is identified.
 - (c) Number & date of the test report of the Central Institute of Mining & Fuel Research/ Central Institute of Mining and Fuel Research/ CML B.V./ CSA Group Netherlands B.V./ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe Ltd./ Karandikar Laboratories Pvt Ltd/ Karandikar Laboratories Pvt. Ltd./ Nemko applicable to the equipment.
 - (d) Equipment reference number of this letter by which use of apparatus is approved.
 - (e) BIS approval number.
 - (f) Protection level.
- 4) A certificate to the effect that the equipment has been manufactured strictly in accordance with the drawing referred to in the Test report and is identical with the one tested and certified at Testing agency shall be furnished with each equipment.
- 5) The customer shall be supplied with a copy of this letter, an extract of the conditions and maintenance schedule, if any, recommended by Central Institute of Mining & Fuel Research/ Central Institute of Mining and Fuel Research/ CML B.V./ CSA Group Netherlands B.V./ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe Ltd./ Karandikar Laboratories Pvt Ltd/ Karandikar Laboratories Pvt. Ltd./ Nemko and copy of instructions booklet detailing operation & maintenance of the equipment so as to maintain its safe characteristics.
- 6) The IS/IEC 60079-17 and IS/IEC 60079-19 shall be followed for maintenance and repair of overhaul of the subject equipments.

Conditions of the Approval:-

The end user and manufacturer shall verify the validity of PESO approval for above electrical components before commissioning / startup of the compressor.

This approval also covers the permissible variations as approved under the Central Institute of Mining & Fuel Research/ Central Institute of Mining and Fuel Research/ CML B.V./ CSA Group Netherlands B.V./ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe Ltd./ Karandikar Laboratories Pvt Ltd/ Karandikar Laboratories Pvt. Ltd./ Nemko test reports referred above. This approval is liable to be cancelled if any of the conditions of the approval is violated or not complied with . The approval may also be amended or withdrawn at any time, if considered necessary in the interest of safety.

The field performance report from actual users/your customers of the subject equipment may please be collected and furnished to this office for verification and record on annual basis.

The Approval is Valid upto **31/12/2026**

Yours faithfully,

(A.B. Tamgadge)
Controller of Explosives
For Chief Controller of Explosives
Nagpur

Copy to :

1. Jt. Chief Controller of Explosives, West Circle, MUMBAI

**For Chief Controller of Explosives
Nagpur**

(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)

This is System generated document. Signature is not required.