



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/104/5907 (P525193)

Dated : 29/03/2022

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, Ivaya,
Sanand,
Taluka: Sanand,
District: AHMEDABAD,
State: Gujarat,
PIN: 382100

Sub : Approval for Electrical Components of CNG Compressor Model REPL.22.DADS.450 under Petroleum Rules, 2002-reg.

Sir(s),

Please refer to your letter No. OIN1021963 dated 10/03/2022 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 60079-11 : 2012, EN 60079-14 : 2014, 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	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
2	FLP-WP Control Panel Cat No. SSP/RCP/110	Shyaam Switchgear (P) Ltd	Ex d IIB+H2 T6	CSIR-Central Institute of Mining and Fuel Research	CIMFR/TC/SR/409 Date 11/07/2012
3	FLP/WP Three Phase Squirrel Cage Induction Motor F	HEM Industries	Exd IIB T5	CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH	CIMFR/TC/P/369 Date 08/07/2011
4	3 Phase IE2 FLP Induction motor Model E90L	CG Power & Industrial Solutions Ltd	Ex d IIB T6	Electronics Regional Test Laboratory (East)	ERTL (E) TES/C184/0069/11-12 Date 07/12/2012
5	FLP/WP Multipurpose enclosure TType No. IJ61240T	FCG Flameproof Control Gears Pvt Ltd	Ex db IIB T6	Central Institute of Mining and Fuel Research	CMF 21 INEx 0274 Issue No. 0 Date 20/07/2021
6	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
7	FS20X	Honeywell Analytics Inc	Ex II 2 G Ex db IIC T6... T4*Gb, II 2 D Ex tb III	FM Approvals Europe Ltd.	FM 14ATEX0058X Date 18/09/2020
8	FGM-6200	RAE Systems by Honeywell	Ex db IIC T6 Gb	CML B.V, Hoogoorddreef 15 Amsterdam, 1101 BA, Net	CML 19ATEX1375X Date 02/08/2019
9	Measuring systems type Promass*** ** CNG mass	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
10	Transmitter Type *700*1****	Micro Motion Inc	Ex db [Ib] IIB+H2 T6 Gb or Ex db [Ib] IIB+H2 T6 Gb	DEKRA Testing and Certification GmbH	DMT 01 ATEX E082 X Date 29/04/2019
11	Explosion Proof Solenoid Series OA-/OAB-/OZA-A*	Atos Spa	Ex db IIC T6 or T4 or T3 Gb	Centro Elettrotecnico Sperimentale Italiano S.p.A.	IECEx CES 10.0010X Issue No.3 Date 21/10/2019
12	FLP 3 Phase Squirrel Cage AC Induction Motor Frame	BHARAT BIJLEE LIMITED	Ex d IIB T5 Gb	Central Institute of Mining and Fuel Research	IN/CIMFR/TR20/754 Date 05/03/2020
13	Pressure Transmitter Type IS-3	Wika Alexander Wiegand SE & Co.	Ex ia IIA T4/T5/T6 Ga or Ex ia IIC T4/T5/T6 Ga or	DEKRA Testing and Certification GmbH	BVS 14 ATEX E 035 Revision 3 Date 11/11/2019
14	FLP/WP MCB Distribution board/Process Control/Cran	Sudhir Switchgears Pvt. Ltd	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/1536 Date 24/02/2012
15	FLP/WP Fluorescent tube light fixture Model No. LT	FCG Flameproof Control Gears Pvt Ltd	Ex d IIB T6.. T4 Gb	Central Institute of Mining and Fuel Research	CMF 20 INEx 0247 Issye No. 0 Date 16/07/2020
16	FLP-WP Panel board Cat No. RCP/221	Sudhir Switchgears Pvt. Ltd	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/141 Date 03/05/2012
17	FLP/WP Push button station with 3 Nos Push buttons	Sudhir Switchgears Pvt. Ltd	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/1431 Date 24/01/2013
18	FLP/WP Enclosure for Control panel Cat No. RCP/215	Sudhir Switchgears Pvt. Ltd	Ex d IIB T6	Central Institute of Mining and Fuel Research	CIMFR/TC/SR/638 Date 30/08/2012
19	FLP WP double compression type cable glands Type N	FCG Flameproof Control Gears Pvt Ltd	Ex db IIC Gb	CIMFR, Dhanbad	CMF 21 INEx 0354 Date 21/09/2021
20	Sensor Type F*** ***** H *** *****	Micro Motion Inc	EX IIB/IIC T6/T5/T4...T1 Ga/Gb	DEKRA Exam GmbH	BVS 03 ATEX E 096 X Date 11/12/2018

			Ca/Co		Date 11/12/2016
21	FLP 3 Phase Squirrel Cage AC Induction Motor Frame	BHARAT BIJLEE LIMITED	Ex d IIB T5 Gb	Central Institute of Mining and Fuel Research	IN/CIMFR/TR20/H05 Date 14/05/2020
22	Gas Analyser SGOES	JSC Electronstandart-pribor	EEx d IIC T4	Nemko	Nemko 13 ATEX 1355 Date 25/11/2014
23	FLP Solenoid junction box with LED / Without LED ,	Rotex Automation Limited	Ex d IIC T6..T4	Karandikar Laboratories Pvt. Ltd.	KLPL/Ex/R12-007 Date 17/07/2017
24	FLP-WP Junction Box Cat No. SSPL/JB/104	Shyaam Switchgear (P) Ltd	Ex d IIB T6 Gb	Central Institute of Mining and Fuel Research	CMF 19 INEx 0077 Issue No. 0 Date 08/01/2020
25	3 Phase FLP Induction Motor Model E180L	CG Power & Industrial Solutions Ltd	Ex d IIB T6	Electronics Regional Test Laboratory (East)	ERTL (E) TES/C184/0023/12-12 Date 12/12/2012
26	FLP/WP Three Phase Squirrel Cage Induction Motor F	HEM Industries	Ex d IIB T4	CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH	CIMFR/TC/P/H776 Date 17/03/2011
27	IPES IR/UV	JSC "Electronstandart-pribor"	EEx d IIC T4	Nemko	Nemko 06 ATEX 1219 X Date 14/01/2020
28	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
29	"Flameproof & Weatherproof enclosure for style GK	Switzer Process Instruments Pvt. Ltd.	Ex db IIC T6 Gb	"Karandikar Laboratories Pvt Ltd. Mumbai "	"KLPL/Ex/21-079X Issue no 00 " Date 09/08/2021

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 "Karandikar Laboratories Pvt Ltd. Mumbai "/ Central Institute of Mining and Fuel Research/ Centro Elettrotecnico Sperimentale Italiano S.p.A./ CIMFR, Dhanbad/ CML B.V, Hoogoorddreef 15 Amsterdam, 1101 BA, Net/ CSIR–Central Institute of Mining and Fuel Research/ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe 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 "Karandikar Laboratories Pvt Ltd. Mumbai "/ Central Institute of Mining and Fuel Research/ Centro Elettrotecnico Sperimentale Italiano S.p.A./ CIMFR, Dhanbad/ CML B.V, Hoogoorddreef 15 Amsterdam, 1101 BA, Net/ CSIR–Central Institute of Mining and Fuel Research/ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe 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 shall verify the validity of PESO approval for above electrical components before commissioning / start up of the compressor.

This approval also covers the permissible variations as approved under the "Karandikar Laboratories Pvt Ltd. Mumbai "/ Central Institute of Mining and Fuel Research/ Centro Elettrotecnico Sperimentale Italiano S.p.A./ CIMFR, Dhanbad/ CML B.V, Hoogoorddreef 15 Amsterdam, 1101 BA, Net/ CSIR–Central Institute of Mining and Fuel Research/ DEKRA EXAM GmbH/ DEKRA Testing and Certification GmbH/ Electronics Regional Test Laboratory (East)/ FM Approvals Europe 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 **31/12/2025**

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>)

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