PETROCHEMICAL INDUSTRIES DESIGN & ENGINEERING CO. PROJ. NO. : 1182	mg engineering Lurgi PROJ.NO: 1.69690-10-GEM	2nd ZAGROS MEGAMETHANOL PROJECT **REQUIREMENT FOR ELECTRICAL CERTIFICATE**	OWNER : ZAGROS PETROCHEMICAL COMPANY (ZPC) PROJ. NO. : 232000

REQUISITION FOR : **ON/OFF VALVES**	ALWAYS REFER TO THIS NUMBER	
	P-1182-REQ-IN-605	**1**
	REQUISITION NO.	REV
INQUIRY ☐ PURCHASE ORDER ■	SHEET 1 OF 1	

GENERAL

This standard format specifies the various type of protection for the instrument and electrical apparatus located in hazardous area as defined by International Electromechanical Commission (IEC).

The equipment shall be type of protection as indicated below, which shall comply with the relevant standard for electrical apparatus for potentially explosive atmospheres i.e.:

Applicable national standard complying with IEC publication 79.

IEC 79.0 : General Requirements
IEC 79.1 : Construction and Test of Flameproof Enclosures for Electrical Apparatus.
IEC 79.2 : Electrical Apparatus. Type of Protection “P”.
IEC 79.6 : Oil-Immersed Apparatus.
IEC 79.7 : Construction and Test of Electrical Apparatus, Type of Protection “e”.
IEC 79.11 : Construction and Test of Intrinsically Safe and Associated Apparatus.
IEC 79.15 : Electrical Apparatus with Type of Protection “n”.

For equipment manufactured in the U.S.A. the equivalent protection degree as described in NEC article 501, shall be followed.

MINIMUM REQUIREMENTS

Type of protection :	☐ ‘o’	☐ ‘p’ ■ ‘ia’	☐ ‘q’ ☐ ‘ib’	☐ ‘d’ ☐ ‘n’	☐ ‘e’	
Gas group IEC :		☐ I	☐ IIA	☐ IIB	■ IIC	
Gas group NEC :		☐ A	■ B	☐ C	☐ D	
Temperature class :	☐ T1	☐ T2	☐T3	■ T4	☐ T5	☐ T6

CERTIFICATION

Quotations must include details of the relevant document (number, year of issue, originating authority) which certifies that the equipment complies with the standard applicable for the required protection.

In case, if the above said information is not furnished along with the Quotation. Vendor must satisfy the purchaser that the appropriate document certifying compliance will be available prior to dispatch of the equipment from manufacturer’s works.

The originator of the certifying documents described above must be one of the CENELEC members (PTB, BASEEFA, CESI, VL, CSA, FM, INIEX, LCIE, ...) .

Where specified in the purchase order, vendor shall submit copies of all certifying documents prior to dispatch of the equipment from manufacturer’s works.

For non-sparking equipment a certificate of compliance issued by the equipment manufacturer is acceptable.

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