

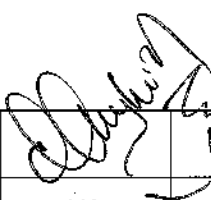
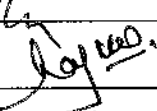
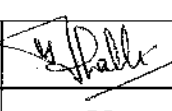


PTS- WARNING MAT

IGL/ND/C&P/
P14089

INDRAPRASTHA GAS LTD.
**CITY GAS DISTRIBUTION PROJECT IN LOW
RISE & HIGH RISE SEGMENT IN NCT OF DELHI,
NCR & REWARI**

PTS - WARNING MAT

					
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1.0 INTRODUCTION & SCOPE

INDRAPRASTHA GAS LTD. (IGL) plans to augment the PNG Network. It supplies natural gas to domestic & commercial consumers in the city of New Delhi.

The present document covers the technical specifications for the procurement of Warning Mat. Warning mats shall be laid in the ground above the gas main line in order to indicate their presence.

2.0 DEFINATIONS

Owner	Shall mean Indraprastha Gas Ltd. (IGL).
Manufacturer	Means the Manufacturer of the Warning Mat / Warning Grid / Warning Net / Warning Tape.
PTS	Means the present <<Particular Technical Specification>> and all its appendix, if any.
Third Party Inspection Agency	Means the Third Party Inspection Agency to be appointed by the Owner.

3.0 REFERENCE CODE

IS 10889	High Density Polyethylene Films
ASTM D - 638	Standard test method for tensile properties of plastics.

4.0 FEATURES

4.1 Material

Raw material of the warning mat shall be Virgin material.

The material grade of Warning Mat shall be HDPE with warning sticker / stamp.

- Mechanical properties
- Tensile strength at break (Machine direction) - 300 Kgf / cm² (minimum)
- Elongation in machine & Transverse direction (%) - 300 (minimum)

4.2 Colour

The Mat shall be of bright golden yellow colour. This colour must not take any appreciable alteration in the course of time.

4.3 Dimensions

Warning Mat shall have following dimensions:

Width	300 mm $\pm$ 5 mm
Thickness	1 mm (Minimum)

Negative tolerance on thickness is not allowed.

4.4 Marking

4.4.1 Marking on the Mat shall be approved by owner. The warning Mat shall be provided with Chainage marking and the warning mat must be engraved with "Caution: High pressure gas pipeline below" in both English and Hindi along with IGL's Logo at a frequency of every meter.

4.4.2 Vendor shall submit proposed Artwork to be marked on the Mat for the approval from Owner / Owner's representative.

4.5 Tests

- Colour - Fast test

Test specimen 100 mm to 150 mm wide shall be immersed in a 20% solution of ammonium sulphide at 15 to 20 °C temperature for 15 days. The colour fastness shall be evaluated by comparing the test



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specimen with a sample specimen. The comparison shall be made by placing the two specimens on a white back ground in day light, but without exposing them directly to sun light. Test shall be accepted satisfactory, if the colour of the strip remains intact.

b. Other tests shall be carried out as per relevant national / international standard enclosed in QAP.

4.6 Packing

The warning mat shall be delivered in rolls of 50meters. Packing size to be mentioned to ensure uniformity in delivery conditions of the materials being procured. Bidder shall submit the packing details during offer and also compiled with at the time of delivery.

5.0 QUALITY ASSURANCE (QA)

Manufacturer shall prepare detailed QAP and submit for the approval from Owner / Owner's representative.

6.0 DEFECT LIABILITY

Defect liability period shall be as per the commercial volume I of II.

7.0 APPENDIX -I

Vendor to submit the following Data along with BID.

SR.NO.	DESCRIPTION	UNIT	DATA	REMARKS
01.	Average gravimetric Thickness	mm		
02.	Tensile strength at Break (in machine direction)	Kg / cm ²		
03.	Tensile strength at Break (in Transverse direction)	Kg / cm ²		
04.	Elongation at Break (in Transverse direction)	%		
05.	Elongation at Break (in Transverse direction)	%		
06.	Color bleeding	-		
07.	Dimensional stability	% change		