

OIL & GAS DEVELOPMENT COMPANY LIMITED
PROCUREMENT DEPARTMENT, ISLAMABAD
FOREIGN SECTION B

(To be completed, filled in, signed
and stamped by the principal)

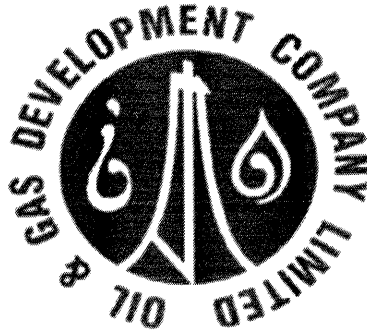
ANNEXURE 'A'

Material UNDERGROUND WARNING TAPE FOR PIPELINE
Tender Enquiry No PROC-FB/CB/PROD-4980/2021
Due Date
Evaluation Criteria FULL

SCHEDULE OF REQUIREMENT

| Sr No | Description | Unit | Quantity | Unit Price (FOB) | Total Price (FOB) | Unit Price C & F BY SEA | Total Price C & F BY SEA | Deviated From Tender Spec. If Any |
|-------|---|---------------|----------|---------------------|----------------------|----------------------------|-----------------------------|--------------------------------------|
| 1 | Underground Warning Tape for Pipeline as Per Specifications at Annexure 'A' | Kilomete r | 50 | | | | | |

Note: (1) BID BOND AMOUNT: USD 640/- OR EQUIVALENT PAK RUPEES (2) EVALUATION CRITERIA: FULL CONSIGNMENT WISE ON CFR BY SEA KARACHI PAKISTAN BASIS (3) DELIVERY PERIOD IS 120 DAYS FROM DATE OF ESTABLISHMENT OF LETTER OF CREDIT (4) TENDER DOCUMENTS AVAILABLE ON OGDCL'S WEBSITE UNDER TAB "MASTER SET OF FOREIGN TENDER DOCUMENTS (PRESS-SINGLE STAGE TWO ENVELOP) - UPDATED"



SPECIFICATION FOR
UNDERGROUND WARNING TAPES
FOR OIL & GAS PIPELINE

| | | |
|------|--|---|
| 1. | SCOPE | 3 |
| 2. | CROSS REFERENCES TO OTHER STANDARDS | 3 |
| 3. | APPLICABLE CODES AND STANDARDS | 3 |
| 4. | MATERIAL, DESIGN AND CONSTRUCTION REQUIREMENTS | 3 |
| 5. | TESTING AND INSPECTION | 4 |
| 6. | SUBMITTALS | 4 |
| 6.1. | SUBMITTALS REQUIRED WITH TENDER/INQUIRY | 4 |
| 6.2. | SUBMITTALS REQUIRED FOLLOWING AWARD OF CONTRACT..... | 4 |
| 7. | TECHNICAL DATA SCHEDULE | 5 |
| 8. | DRAWING | 7 |

1. SCOPE

This Specification specifies the minimum technical requirements of underground warning tapes to identify and give early warning to excavators that a pipeline is buried underneath.

2. CROSS REFERENCES TO OTHER STANDARDS

N/A

3. APPLICABLE CODES AND STANDARDS

The latest revision of the following codes and standards shall be applicable for the equipment/materials covered in this specification. In case of any deviation, the vendor/manufacturer may propose equipment/materials conforming to alternate codes or standards. However, the provisions of these standards shall supersede the provisions of alternate standards in case of any difference.

Table 1: List of applicable standards

| Standard # | Title |
|------------|--|
| ASTM D792 | Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement |
| ASTM D882 | Test Method for Tensile Properties of Thin Plastic Films |
| ASTM D2103 | Specification for Polyethylene Film and Sheeting |
| ASTM D2578 | Test Method for Wetting Tension of Polyethylene and Polypropylene Films |

4. MATERIAL, DESIGN AND CONSTRUCTION REQUIREMENTS

- All warning tapes shall be manufactured from high-grade virgin materials of low density polyethylene polymers.

- The warning tapes should be resistant to most soil types including alkaline and acidic soils.
- Warning tapes shall have a minimum thickness of 200µm with allowable tolerance of +50µm.
- Warning tapes shall have a width of 150mm and a roll size of 500m.
- The imprints in the warning tapes shall be indelible, lead-free, black color and shall be over coated to protect the imprints from acids, alkalis, and other soil substances.

5. TESTING AND INSPECTION

All underground warning tapes shall be tested in conformance with the applicable clauses of the standards mentioned in this specification.

6. SUBMITTALS

6.1. SUBMITTALS REQUIRED WITH TENDER/INQUIRY

- 6.1.1 Compliance to SOR and this specification (Sign & stamped by the bidder)
- 6.1.2 Manufacturer's Catalogue
- 6.1.3 Certificate stating that the raw material has been sampled, tested and inspected in accordance with relevant standard specifications.
- 6.1.4 Filled-up technical data schedule of the item offered
- 6.1.5 Proof that the product offered is already been supplied and used in Oil & Gas Companies.
- 6.1.6
- 6.1.7 USB Flash Drive containing e-copy of all the documents mentioned above

6.2. SUBMITTALS REQUIRED FOLLOWING AWARD OF CONTRACT

- 6.2.1 Samples
- 6.2.2 Quality assurance tests
- 6.2.3 Manufacturing and routine test schedules

7. TECHNICAL DATA SCHEDULE

Table 2: Technical Data Schedule

| No | Description | OGDCL Specified Values (*) | Vendor Proposed Values (**) |
|----------|--|-------------------------------|-----------------------------|
| 1 | Warning Tape | | |
| 1.1 | Material (Virgin Grade) | Low Density Polyethylene Film | |
| 1.2 | Resistant to most soil types including alkaline and acidic soils | Yes | |
| 1.3 | Thickness + Tolerance | 200µm + 50µm | |
| 1.4 | Width | 150mm | |
| 1.5 | Roll Size | 500m | |
| 1.6 | Color | Red Stripes over White | |
| 2 | Imprints | | |
| 2.1 | Color | Black & White | |
| 2.2 | Material | Indelible Lead-Free | |
| 2.3 | Design | As specified | |
| 2.4 | Overlay Clear Coating | Yes | |
| | Manufacturer | ** | |
| | Manufacturer Catalogue Number | ** | |
| | Country of Origin | ** | |
| | Submittals Required with Tender/Inquiry Included or Not? | ** | |

Warning Tape

- Additional Technical Information or Features Specified by OGDCL
- Additional Supplementary Data or Features Proposed by Bidder/Vendor/Supplier.
- Other Particulars to be filled-up by the Bidder/Vendor/Supplier.
- List of Deviations and Clauses to which exception is taken by the Bidder/Vendor/Supplier. (Use separate sheet, if necessary).

| Description | Manufacturer of Material/Equipment | Vendor/Supplier |
|---|------------------------------------|-----------------|
| Name of Company | | |
| Location and Office Address | | |
| Name and Signature of Authorized Representative with Date | | |
| Official Seal / Stamp | | |

TECHNICAL DATA SCHEDULE

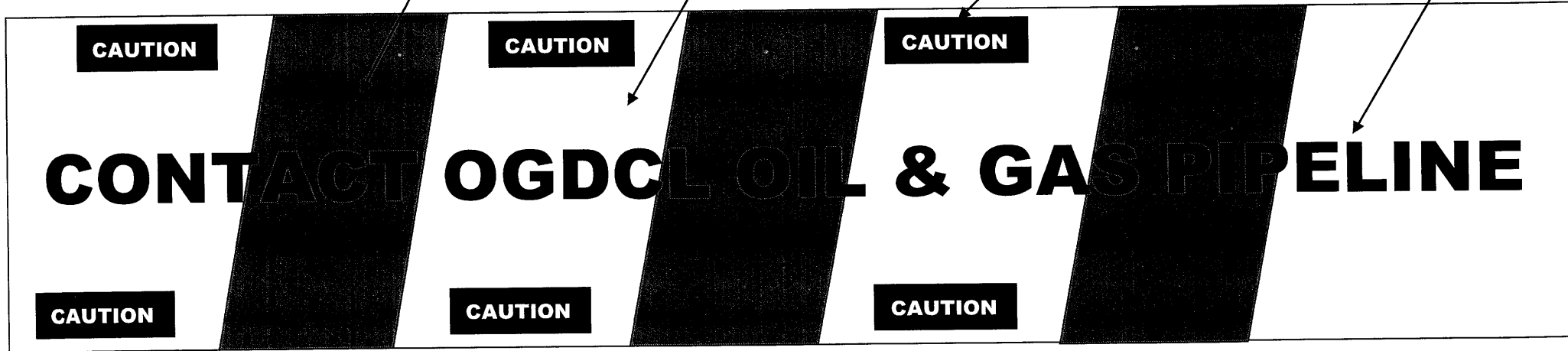
Warning Tape Format

STRIP COLOR = RED

STRIP COLOR = WHITE

FONT COLOR = WHITE
BOX COLOR = BLACK

FONT COLOR = BLACK



Notes:

1.Width: 150mm

2.Roll Size: 500m

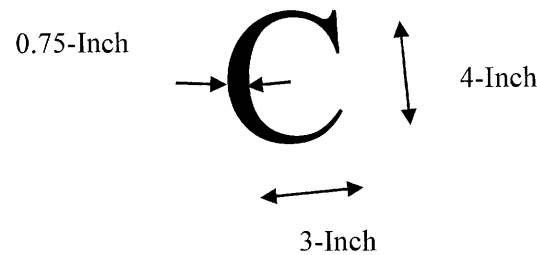
3.Thickness: 200µm

4.Font Size: 

5.Printing on Both side.

6.Shrink packaging (individual roll in a shrink packaging) with transparent bag and then put into carton.

7.Non-Detectable (Without tracer wire)



Ⓜ