

**OIL AND GAS DEVELOPMENT COMPANY LIMITED
KUNNAR OIL FIELD, TANDO JAM HYDERABAD SINDH**

**SCHEDULE OF REQUIREMENT – (ADDENDUM 01)
ANNEXTURE – A**

Tender Enquiry: Procurement of Heat Shrinkable Sleeves with closure patches for 6 inch Dia Pipe (NPS 6’’) required for new Water disposal line to Thora Pits project’’

S.No	Product Description	UOM	Qty	Unit Rate (Pkr.)	Total Amount (Pkr.)
01	Heat Shrinkable Sleeves with closure patches for 6 inch Dia Pipe (NPS 6’’) compatible with 3LPE coated pipe Product Details: Pipe Dia # 6Inches (OD # 6.625) Material: High Density Polyethylene Heat Shrinkable Sleeves Dimension # Length 25 Inches, Width 17 Inches Closure Patch: Length 17Inches, Width 04Inches Pipe Coating Material: 3Layer Polyethylene	Nos.	500		
Total Amount without Taxes (Pkr.)					
GST 17% (Pkr.)					
Other Taxes If Applicable (Pkr.)					
Grand Total (Pkr.)					

Appendix A: Technical Details of Required Heat Shrinkable Sleeves

Property	Test Method	Required Results
SHRINK SLEEVE BACKING		
<i>Density</i>	ASTM D792	≥0.95 GM/CC
<i>Hardness of Backing</i>	ASTM D2240	≥55 SHORE D
<i>Tensile Strength</i>	ASTM D638	≥ 15MPA
<i>Elongation to Break</i>	ASTM D638	≥ 400%
SHRINK SLEEVE ADHESIVE		
<i>Ring and Ball Softening Point of adhesive</i>	ASTM E-28	≥ 110 °C
<i>Lap Shear Strength of adhesive</i>	ASTM D1002	≥500 PSI AT 23°C ≥50 PSI AT 80°C

SHRINKABLE SLEEVES		
Peel to Steel	ASTM D-1000 EN12068	40 lbs/In. Width 5.1 N/mm
Cathodic disbondment	ASTM G-42 @ 80°C (176°F), 30 Days	17mm Radius
	EN12068 @ 80°C (176°F), 28 days	12mm Radius
Hot water immersion	ASTM D-870 @ 80°C (176°F), 120 Days	No delamination, no blisters or water ingress
Soil stress creep resistance	TP-206 @ 80°C (176°F)	0.003 in (0.067mm)
Low temperature flexibility	ASTM D2671, C	-25°C (-13°F)
Impact resistance	ASTM G-14 EN12068 class C	76 in-lbs > 15 J
Penetration resistance	ASTM G-17 @ 80°C (176°F)	No holidays @ 10,000 volts
Indentation resistance	EN12068, Class C, @ 80°C (176°F)	Residual thickness > 0.6 mm

Product Thickness

Backing As Supplied	0.75mm (0.030in)
Backing Fully Free Recovered	1mm (0.039in)
Adhesive as Supplied	1.5mm (0.060in)

Terms & Condition

1. Product as per SOR must be delivered within **10 weeks** after placement of purchase order.
2. Bidder will provide/deliver the material at Kunnar Oil Field site on FOR basis.
3. Material should be delivered in proper packing to avoid any loss during transportation. OGDCL will not be responsible for any such loss.
4. LD charges in case of Late delivery will be imposed as penalty up to maximum of 5% of the amount of PO excluding GST as per tender document
5. Detailed Inspection of Supplied material will be carried out by OGDCL at site.
6. Supplier will provide material as per specification along with **mandatory MTCs**, Quality Inspection Report of Manufacturer, Foreign Documents as a proof of genuine buying-in case of foreign origin etc.
7. In case of wrong delivery, the shipment charges to & from the site (Kunnar Oil Field) will be supplier's responsibility.
8. Payment will be made through cross cheque or online bank transfer from OGDCL Head office, after 100% delivery and inspection of supplied material at site and provision of invoice, sales tax invoice, annex-c from FBR and other relevant documents.

9. Partial Payments will not be made, in any case.
10. The bidder must be a registered company with FBR, having at least 3-5 years' experience in supply of relevant industrial material.
11. The bidder has to provide documentary evidence of supply and successful application of **The offered product** in industry over past 3-5 years.
12. OGDCL encourages the bidders to Participate in Bidding ceremonies, in person.