

TECHNICAL SPECIFICATIONS

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The bidder shall indicate whether the required specifications are met by them by marking (Yes) if it meets/comply the requirements and (No) if it is not, in front of each requirement/specification in the right-hand corner of each item. Variations and/or deviations from specification, if any, shall be illustrated clearly in detail. Complete technical specification details shall also provide together with following.

	Item	16" Double Tied Expansion Joint	14" Double Tied Expansion Joint	12" Annularly Corrugated Flexible Hose	Compliance Yes/No
1	Extended Dimension	2000 mm		1520 mm	
2	Intended Use	To connect Steel Pipelines (Petrol, Diesel and Kerosene) into Atmospheric Above Ground Storage Tanks			
3	Operating Pressure	1.55 MPa Max.			
4	Operating Temperature	15 °C to 60°C			
5	Design Pressure	Design Pressure shall be Max. Operating pressure + Safety Margin as per Manufactures Standards			
6	Design Temperature	Design Temperature shall be Operating temperature +Safety Margin as per Manufactures Standards			
7	End Connection	16" ASME B16.5 150# Raised Face Flange	14" ASME B16.5 150# Raised Face Flange	12" ASME B16.5 150# Raised Face Flange and Loose Flange at the other end	
8	Materials	Flanges: ASME A105 or Equivalent Bellows: Stainless Steel 316 Center Spool: API 5L Grade B or equivalent Tie Rods: ASTM A193 Gr. B7 & ASTM A194 Gr.2H or equivalent (Tie rods must not exceed the end flange limit) Other Components: as per manufactures standards Material Test Certificates shall be accordance with EN 10204 3.2 and forward to CPSTL for approval prior to the shipment.		Flanges: Stainless Steel 316 Bellows: Stainless Steel 316 Braid: Wire Braid Stainless Steel 316 Other Components: as per manufactures standards Material Test Certificates shall be accordance with EN 10204 3.2 and forward to CPSTL for approval prior to the shipment.	

9	External Coatings	Primer Coat: Zn rich Epoxy Primer Finish Coat: UV & Weather resistant Epoxy or Any other coating system proposed by manufacture having superior corrosion, UV and weather resistant properties.	As per Manufactures Standards	
10	Trans-Displace	> 120 mm		
11	Motion	Universal (Axial, Lateral and Angular)		
12	Applicable Standards	EN 13445, EN 13480, EN 14917, BS EN ISO 10380 ASME VIII, Div. I, ASME B31.3, ASME B31.1, AD 2000 or EJMA, ASME B16.5, API 5L		
13	Hydro Test & Pneumatic test	According to EJMA, PED 97/23 or applicable international standard Test reports shall be forwarded to CPSTL for approval prior to the shipment.		
14	NDT Requirements	According to EJMA, PED 97/23 EC rules and regulations or equivalent international regulations. Test reports shall be forwarded to CPSTL for approval prior to the shipment.		
15	3 rd Party Inspection	Third party inspection of Material, Pressure and NDT test by internationally reputed third-party inspection organization acceptable to the CPSTL.		
16	Video Evidence on Factory Testing	Provide video evidence on Expansion Joint and flexible Hose testing in a DVD along with test certificates. (Each item shall be able to separately identify from Serial or Identification Number)		
17	Documents	<ul style="list-style-type: none"> • Dimensional drawings of Flexible Hoses and Double Tied Expansion Joints shall be provided along with the bid. • Material, Pressure and NDT test certificates including 3rd party inspection certificate shall be forwarded to CPSTL for the confirmation of shipment. 		
18	Installation Procedure	Step by step guide of installation procedure shall submitted.		
18	Other Details	Schematic drawings are attached.		

Signature of the Bidder:

Date:.....

(Common Seal)

DRAWINGS





