

PR No.: 144497550 Date:

25.10.2025

Annexure-B

Technical Delivery Conditions

1	Scope of Supply	Qty	Vendor Comments
1	Universal Joint Shaft of length: 1350+90=1440 MM as per BHEL drg no: 1-7-1136-08-01620-2-0 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	6	
2	Universal Joint Shaft of length: 2160+90=2250 MM as per BHEL drg no: 1-7-1136-08-01621-2-0 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	6	
3	Universal Joint Shaft of length: 2350+450=2800 MM as BHEL reference drg no: HMM/SSTP-1 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	3	
4	Universal Joint Shaft of length: 1220+250=1470 MM as per BHEL drg no: 1-7-1139-01-00381-0-0 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	4	
5	Universal Joint Shaft of length: 1250+100=1350 MM as per BHEL drg no:4-7-1155-15-02658-1-0 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	2	
6	Universal Joint Shaft of length: 1520+100=1620 MM as per BHEL drg no:4-7-1155-15-03886-0-0 List of items to be supplied: a) UJ shaft in assembled condition-1 no b) Spare Cross kit with bearings-2 sets c) Circlip-8 nos	8	
2	Common Technical Requirements		Vendor Comments
2.1	<u>Design:</u> a) Driven Equipment: Reeling and Pulling equipment. b) Type of Load: Heavy Shock Load. c) Load Cycle: Peak load 3 times per minute for a duration of 3-4 seconds.		

2.2	<u>Construction:</u> a) 100% forged yoke and cross. b) Flange yoke, weld yoke and spline yoke material shall be EN8 (conforming to BS970-1955 standard) hardened and tempered to 25-30 HRC. c) UJ cross material shall be 20MnCr5 hardened and tempered to 58HRC. d) Spline material shall be EN19 (conforming to BS970-1955 standard) hardened and tempered to 40HRC. e) Needle Roller shall be made from high carbon chromium bearing steel finished to hardness of more than 58 HRC and surface roughness of 0.4mRa. f) Surface Roughness of 0.8mRa to be maintained on the bearing raceway surface in UJ cross and bearing cup ID.	
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2.3	<u>Lubrication provision:</u> 4-point greasing system shall be adopted.	
3	Documents to be submitted for approval: (All test reports of material shall be from NABL accredited laboratory and NDT reports by Qualified personnel)	Vendor Comments
3.1	<u>Before start of Manufacturing:</u> Detailed drawing with part list.	
3.2	<u>Before dispatch:</u> a) Dimensions inspection report. b) Hardness test report & Material composition test certificate.	