- 1. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 8mm (5/16") HOSE LENGTH: 10 M FITTINGS: Straight
 Female End Swivel Fitting with 24 Degree Cone Ring to Suit 24 Degree Flare End On Both
 Ends of Size M18x1.5 For Stand Pipe Dia of 8 mm.
 Working Pressure: 297 Bar, Testing Pressure: 595 Bar."
 - 2. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2 Hose size: 12.5mm (1/2") HOSE LENGTH: 1000mm, FITTINGS: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit 24 Degree Flare End On Both Ends of Size M24x1.5 For Stand Pipe Dia of 16 mm. Working Pressure: 245 Bar, Testing Pressure: 490 Bar."
 - 3. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 12.5mm (1/2")HOSE LENGTH: 1000mm ,FITTINGS: Straight Female End
 Swivel Fitting with 24 Degree flare end on one side and other end 90 deg.bend
 female end swivel fitting with 24 deg.cone ring to suit with 24 deg.flare of
 Size M24x1.5 For Stand Pipe Dia of 16 mm.
 - Working Pressure: 245 Bar, Testing Pressure: 490 Bar."
 4. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 - Hose size: 12.5mm (1/2") HOSE LENGTH: 1500mm FITTINGS: Hose id-12.7mm(1/2") hose od-16mm length-1500mm fitting:straight

female end swivel fitting with 24 degree cone to suit 24 degree flare end on both sides. both ends: $m24 \times 1.5$ for stand pipe dia of 16mm

Note:1.Supply of hose to be with flat wire spring guard to act as abrasing guard to protect the hose.

2.Flat wire width:9mm

3. Space between wires: 5mm

4. Thickness of wires: 1mm

5.To arrest flat spring movement wire should be crimped along with sleeve of hose both ends.

6. Working pressure: 245 bar, testing pressure: 490 bar."

- 5. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 19 mm (3/4") HOSE Length: 1000mm
 Fittings: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit
 24 Degree Flare End On Both Ends of M30x2 for Stand Pipe Dia of 20mm.Working
 Pressure: 157 Bar, Testing Pressure: 315 Bar."
- 6. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 19 mm (3/4") HOSE Length: 1000mm
 Fittings: Straight Female End Swivel Fitting with 24 Degree flare end on one side and other end 90 deg.bend female end swivel fitting with 24 deg.cone ring to suit with 24 deg.flare of Size M30x2 for Stand Pipe Dia of 20mm.Working Pressure: 157 Bar, Testing Pressure: 315 Bar."
- 7. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 19 mm (3/4")Length: 10000 mm (10 meter)
 Fittings: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit
 24 Degree Flare End On Both Ends of M30x2 for Stand Pipe Dia of 20mm.Working
 Pressure: 157 Bar, Testing Pressure: 315 Bar."
- 8. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 19 mm (3/4") Length: 1500mm
 Fittings: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit with 24 Degree Flare End On Both Ends of M30x2 for Stand Pipe Dia 20mm On Both Sides. Working Pressure: 157 Bar, Testing Pressure: 315 Bar."
- 9. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2
 Hose size: 19 mm (3/4")Length: 2000mm
 Fittings: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit with 24 Degree Flare End On Both Ends of M30x2 for Stand Pipe Dia 20mm On Both Sides.

Working Pressure: 157 Bar, Testing Pressure: 315 Bar."

10. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size: 19 mm (3/4")Length: 2300mm

Fittings: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit with 24 Degree Flare End On Both Ends of M30x2 for Stand Pipe Dia 20mm On Both Sides.Working Pressure: 157 Bar, Testing Pressure: 315 Bar."

11. HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size: 19 mm (3/4") Length: 1500mm

Fittings: Straight female end swivel fitting with 24 deg. cone ring to suit with 24 Degree flare end on both ends of M36x2 for stand pipe dia 25mm on both sides.Working Pressure: 157 Bar, Testing Pressure: 315 Bar."

12. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size:25 mm (1") Length: 1500mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit With 24 Degree flare end on both ends of size M42x2 for stand pipe dia 30mm on both sides. Working Pressure: 140 Bar, Testing Pressure: 280 Bar."

13. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size:25 mm (1")Length: 3000mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit With 24 Degree flare end on both ends of size M42x2 for stand pipe dia 30mm on both sides. Working Pressure: 140 Bar, Testing Pressure: 280 Bar."

14. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size:25 mm (1") Length: 1000mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit With 24 Degree flare end on both ends of size M42x2 for stand pipe dia 30mm on both sides. Working Pressure: 140 Bar, Testing Pressure: 280 Bar."

15. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size:25 mm (1") Length: 2300mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit With 24 Degree flare end on both ends of size M42x2 for stand pipe dia 30mm on both sides. Working Pressure: 140 Bar, Testing Pressure: 280 Bar.

16. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R2

Hose size: 38mm (1 1/2") Length: 1000mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit with 24 Degree flare end on both ends of size M52x2 for stand pipe dia 38mm on both sides.Working Pressure: 87 Bar, Testing Pressure: 175 Bar."

17. "HIGH PRESSURE HOSE CONFIRMING TO SAE 100R2

Hose size: 38 mm (1 1/2") Length :1500mm

Fittings: Straight Female End Swivel Fitting with 24 Degree flare end on one side and other end 90 deg.bend female end swivel fitting with 24 deg.cone ring to suit with 24 deg.flare of Size M52X2 For Stand Pipe Dia of 38 mm. Working Pressure: 87 Bar, Testing Pressure: 175 Bar. "

18. "HIGH PRESSURE HOSE CONFORMING TO SAE 100R2

Hose size: 38 mm (1 1/2") Length: 2000mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit with 24 Degree flare end on both ends of size M52x2 for stand pipe dia 38mm on both sides.

Working Pressure: 87 Bar, Testing Pressure: 175 Bar. "

19. "HIGH PRESSURE HOSE CONFIRMING TO SAE 100R2.

Hose size: 38 mm (1 1/2") Length: 3000mm

Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit with 24 Degree flare end on both ends of size M52x2 for stand pipe dia 38mm on both sides.

Working Pressure: 87 Bar, Testing Pressure: 175 Bar. "

20. "Hose size: 12.5 mm (1/2")

Length: 1000mm

STAINLESS STEEL FLEXIBLE CORRUGATED HOSE WITH BRAIDED. Nominal dia: 13mm Length: 1000mm Fittings: Straight female end swivel fitting with 24 deg.Flare to suit 24 deg.Flare end on both sides of size 1/2""BSP. Application: To transport headed LSHS,LDO,SKO. Temperature: 250 deg.c Min.bend radius: 25mm Working pressure: 10kg/sq.cm Testing pressure: 20kg/sq.cm"

- 21. "HIGH PRESSURE HOSE CONFIRMING TO SAE 100R3.

 Hose size: 19 mm(3/4") Length: 1500mm

 Nominal dia: 19.0mm Length: 1500mm Fittings: Straight female end swivel fitting with 24 deg.cone ring to suit 24 deg.flare end on one side of size M30x2 to suit stand pipe dia 22mm and 3/4"" BSP male thread on other side. Working pressure:52 Bar, Testing Pressure:105 Bar."
- 22. "HIGH PRESSURE HYDRAULIC HOSE CONFORMING TO SAE100R3
 Hose size: 12.5mm (1/2") HOSE LENGTH: 10 M
 FITTINGS: Straight Female End Swivel Fitting with 24 Degree Cone Ring to Suit
 24 Degree Flare End On Both Ends of Size M18x1.5 For Stand Pipe Dia of 12 mm.
 Working Pressure: 70 Bar, Testing Pressure: 140 Bar."
- 23.PVC WITH NYLON BRAIDED HOSE, SIZE:ID 1/2", WORKING PR.- 6 KG/SQ.CM, EACH PACK SHALL BE IN 50 METER REQUIRED.
- 24. PVC WITH NYLON BRAIDED HOSE, SIZE:ID 3/4", WORKING PR.- 6 KG/SQ.CM, EACH PACK SHALL BE IN 50 METER REQUIRED.
- 25. "HOSE CLIP (HEAVY DUTY) BS5315:1991 OR EQUIVALENT, TYPE: WORM & WORM WHEEL SIZE: 1/2", MATERIAL: MILD STEEL ZINC COATED."
- 26. "HOSE CLIP (HEAVY DUTY) BS5315:1991 OR EQUIVALENT, TYPE: WORM & WORM WHEEL SIZE: 3/4", MATERIAL: MILD STEEL ZINC COATED."
- 27. "HOSE CLIP (HEAVY DUTY) BS5315:1991 OR EQUIVALENT, TYPE: WORM & WORM WHEEL SIZE: 1", MATERIAL: MILD STEEL ZINC COATED."
- 28. "HOSE CLIP (HEAVY DUTY) BS5315:1991 OR EQUIVALENT, TYPE: WORM & WORM WHEEL SIZE: 1 1/4", MATERIAL: MILD STEEL ZINC COATED."
- 29. "HOSE CLIP (HEAVY DUTY) BS5315:1991 OR EQUIVALENT, TYPE: WORM & WORM WHEEL SIZE: 1 1/2", MATERIAL: MILD STEEL ZINC COATED."

TECHNICAL DELIVERY CONDITION FOR HIGH PRESSURE HYDRAULIC HOSES:

DOC NO: HMM/01/2023-24 SSTP/BHEL-TRICHY

Pressure Rating of Hoses:

Pressure rating of hoses as per the below mentioned table shall be strictly followed. SAE 100R2 is structured with 2-wire braided steel wire reinforcement. SAE 100R3 is structured with Double Fiber Braided (Nonmetallic) reinforcement.

TABLE-1:

SI no	SAE standard category	Hose Size (Inches)	Working Pressure (Bar)	Testing Pressure (Bar)
1	SAE 100R2	5/16	297	595
2	SAE 100R2	1/2	245	490
3	SAE 100R2	3/4	157	315
4	SAE 100R2	1	140	280
5	SAE 100R2	1 1/2	87	175
6	SAE 100R3	1/2	70	140
7	SAE 100R3	3/4	57	105

Testing procedure:

Vendor should check the Hoses in their test rig for rated testing pressure as per sizes mentioned in Table-1. Inspection report for testing of hoses in their workshop shall be submitted. Inspection of hoses will be carried out in M/S BHEL- SSTP test rig and if any hoses get damaged during checking all the hoses in that material code will be rejected.

Identification:

BHEL Material code, WP in Bar and size of hose in inches should be stamped/engraved in all hoses metal area. Tagging of hoses is not allowed. Hose without identification will be rejected.

BID NO:

PRE-QUALIFICATION CRITERIA

SN	Pre-Qualification criteria	Vendor's
		confirmation
1	The bidder must have supplied SAE 100 R2, R3 or	
	equivalent standard hoses to qualify for SL NO-	
	10 to 220.	
	The bidder shall submit previous Purchase Order supplied	
	to Central/State Govt./PSU company/Private organization	
	during the last five years along with the documentary	
	evidence (Eg: Invoice copy, Delivery challan etc.) for	
	supply of material satisfying the above criteria.	

Above mentioned criteria to be confirmed by the vendor. In case of failure, offer will be rejected.

This document with supporting documents is to be submitted along with the offer.