

TECHNICAL SPECIFICATIONS OF “CENTRIFUGAL HYDRAULIC OIL RECLAMATION SYSTEM” TO PART No. RD366GVH0132, QTY.: 01 No.

MANDATORY REQUIREMENTS UPTO & INCLUDING CLAUSE NO.III

NOTE: FIRM COMPULSORILY COMPLY THE MANDATORY REQUIREMENTS

Sl. No.	BEML Requirement	Firm's confirmation yes/no	Remarks
Supply, Installation & Commissioning of Centrifugal Hydraulic Oil Reclamation System . Qty: 1 no.			
A) SCOPE OF SUPPLY:			
I. CENTRIFUGAL FILTER UNIT:			
1	Balancing of rotor tube shall be $\leq G 2.5$		
2	Rotor balancing shall be $\leq G 6.3$		
3	Nozzle shall be bar turned steel		
4	Rotor dirt holding capacity 4 ~ 5 litre		
5	Rotor oil capacity 4 ~ 5 litre		
6	Bearing tube assembly: a) Tube is turned steel b) Lead-bronze bearing		
7	Rotor tube fully machined from aluminium tube		
8	Centrifugal force shall be sufficient to separate the dirt/wear particles up to 0.25 μm .		
9	Centrifuge body shall be made out of Aluminium alloy pressure die cast.		
10	Construction of rotor with swept ribbed top cover.		
11	Actual Speed of the rotor shall be 4500 rpm maximum		
12	For achieving the balancing requirement metal pieces shall not be welded to the rotor.		
13	Shall be oil pressure driven with bottom flanged connection for gravity drains.		
II. HORIZONTAL MOTORIZED PUMP ASSEMBLY (i.e integral pump & electrical motor) FOR SUPPLYING OIL TO THE CENTRIFUGAL UNIT:			
1	Pump & Motor shall be of reputed make and capable for continuous duty application for circulating SAE10W hydraulic oil at the rate of more than 2000 litre per hour.		
III. OTHER REQUIREMENTS:			
1	Hour meter shall be provided.		
2	Periodic oil inspection (wear debris and particulate analysis) at least four times in the first year is to be carried out by the bidder.		
3	Oil Condition monitoring POD (Sight gauge) to be provided on Centrifuge tank		

4	(a) Operation and service manual along with spare parts list shall be supplied. (b) Technical data sheet of the centrifuge with dimensional details & performance curve to be provided.		
5	Bidders to clearly indicate make, model and specification of items used in the offered system.		
6	At least 3 customers list in India (using similar or higher model quoted) shall be provided with the following details:		
	(i) Name of Contact person		
	(ii) Mobile number		
	(iii) Email ID		
	(iv) Inspection reports (or) performance reports		
7	2 nos. of 500 litre capacity hydraulic oil tank shall be supplied. (i.e. One is sedimentation tank and another one is centrifuge tank)		
8	Performance of the Centrifugal Hydraulic Oil Cleaning System is to be proved at our works.		
9	50 nos. of paper insert suitable for the offered rotor to be supplied.		

B) GENERAL TERMS AND CONDITIONS:

10	Installation of Centrifugal filtration unit, Pump & Motor assembly with necessary metal piping, valves, Sturdy mounting stand, pressure gauges, etc., shall be completed within 30 working days at R & D Fluid Power Laboratory.		
11	Warranty for a period of 2 years from the date of installation and commissioning.		
12	Only OEM's or Authorized Dealer's offers will be Accepted. In case of authorized dealers, authorization certificate to be enclosed.		