



BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR-249403 (UK)
Fax: 01334-226084/226462, Phone: 284269/281685
E-mail: sram@bhelhwr.co.in

Annexure-A

REVISED PRE-QUALIFICATION REQUIREMENTS FOR JACKING OIL SYSTEM SKID FOR KORADI U-6 PROJECT

Brief introduction: - Jacking oil pump (JOP) with AC & DC motors are positive displacement pumps and are used for supply of jacking oil (ISO VG 46) to steam turbines of 210MW/250MW/270MW/300MW/500MW/600MW rating.

The scope of supply shall include complete pump motor assembly along with coupling, pump base plate, flanges, gaskets, counter flanges, fasteners, suction pipe & discharge pipe, cable glands and all the items as mentioned in Doc. No. 4-11919-BOI-20.

AC and DC motors shall be sourced from internationally reputed suppliers.

Acceptance Criterion for Vendor

1. Vendor should have supplied positive displacement pumps (screw/vane type) with AC and DC motors for pumping oil (ISO VG46) with flow (minimum 1.33 LPS) & pressure (minimum 175 bars).
2. With the flow and pressure as mentioned in clause-1, vendor should have executed at least 3 projects (not before 2007) and has to furnish the data in Table-1. From the experience list furnished in Table-1
 - a. Vender has to furnish customer approved / end user certified GA drawing /documents of pumps of any one project.
 - b. Vender to submit PO copies (of 3 no. projects executed not before 2007) and a letter on their letter head that they have successfully executed at least 3 no. P.O. (not before 2007). Vender to also furnish end user certificate from any one end user. The certificate should be original ink-signed, on end user's letter head, in the format as mentioned in Annexure-AA. In case, vender has supplied these pumps to BHEL (any unit) then PO copies (of 3 no projects and not before 2007) and a letter on their letter head that they have successfully executed at least 3 no. Projects (not before 2007) shall suffice.
 - c. Vender should have commissioned the pump set with AC motor of 415V-AC, (+/-10%), 50Hz (+/-5%) with starting current limited to 600 % + (tolerances) and supplied as per point no. 1 of acceptance criteria above for at least one executed P.O.
 - d. Vendor or their sub vendor should have commissioned the above pump set with DC motor of 220V-DC (-15%, +10%) feeder supply with **multiple step starting resistance** for limiting the starting current of DC motor and supplied as per point no. 1 of acceptance criteria above for at least one executed P.O.
 - e. The **"Starting resistance box"** of suitable design meeting the multiple step starting requirement of DC motor when coupled with pump shall be supplied along with DC motor and should have commissioning experience as per point no. 1 of acceptance criteria above for at least one executed P.O.
 - f. For point no. c to e, Vender to furnish customer approved /end user certified motor data sheet for "AC & DC Motors" and "starting resistance Box" of any executed project not before 2007 in support of experience information.



BHARAT HEAVY ELECTRICALS LIMITED
HEEP, HARIDWAR-249403 (UK)
Fax: 01334-226084/226462, Phone: 284269/281685
E-mail: sram@bhelhwr.co.in

Table-1

S. No.	End customer Name	Project Name	Flow of positive displacement pump	Pressure of positive displacement pump	Fluid	Appli cation	Pump Type	Year of Execution	No of PO Copies	Contact Details, Telephone No's & Email id of End user
Acceptance Criteria		-----	Flow & pressure combination should be as mentioned in clause 1 of acceptance criteria	Flow & pressure combination should be as mentioned in clause 1 of acceptance criteria	ISO VG 46		Screw/vane	Not before 2007	3(not before 2007)	-----

Against vendor's replies, BHEL reserves the right to ask for more information/documents/clarifications. Vendor's offer shall not be considered if vendor fails to furnish the documents/information/clarifications as mentioned above or vendor doesn't meet the acceptance criteria as mentioned from SL No.-1 to 2.

In case of information /data furnished by vendor found false/incorrect, BHEL reserves the right to reject their offer for the above item.

3-Note: BHEL would open the price bid of only those vendors, who fulfill our pre-qualification requirements and are successfully registered at BHEL Hardwar in the Product material Directory (PMD) of this item and are duly approved by the end user within validity of the offer.

Sudarshan Ram
Sr. DGM (PPX-BOI)