



**Oil India Limited**  
**(A Govt. of India Enterprise)**  
**P.O. Duliajan – 786602, Assam**

Telephone No. (91-374) 2808793  
Fax No: (91-374) 2800533  
Email: [materials@oilindia.in](mailto:materials@oilindia.in); [erp\\_mm@oilindia.in](mailto:erp_mm@oilindia.in)

Tender No. : **SDG6890P16/06 of 13.04.2015**

Bidding Type : **SINGLE STAGE COMPOSITE BID SYSTEM**

Bid Closing on : 05.08.2015 at 11:00 hrs (IST)  
Bid Opening on : 05.08.2015 at 14:00 hrs (IST)

Tender Fee : INR 4,500.00 OR USD 100.00  
Bid Security Amount : INR 54,280.00 OR USD 844.00

Performance Guarantee : Applicable

OIL INDIA LIMITED invites Global Tenders for items detailed below:

Item No. / Mat. Code	Material Description	QTY.	UOM
1	Supply of Hydraulic Power Unit as per the following:  a) Detailed specification - Annexure - A  b) Bid Rejection Criteria (BRC) and Bid Evaluation Criteria - Annexure-B.  c) Technical and Commercial Check list - Annexure - C	01	No.

**(A) General Notes for e-tender :**

1. The tender will be governed by “General Terms & Conditions” for e-Procurement as per Booklet No.MM/GLOBAL/E-01/2005 for E-procurement(ICB Tenders) including Amendment and Addendum.
2. The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be found in the Item Data and details uploaded under Technical RFX.

3. Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
4. Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with tender no. and due date to The **Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam or before 13:00 hrs (IST)** on the Bid Closing Date mentioned in the Tender.

a) Original Bid Security.

b) Details Catalogue and any other document which have been specified to be submitted in original.

All documents submitted in physical form should be signed on all pages by the authorized signatory of the bidder and to be submitted in triplicate.

5. Bidders must ensure that their bid is uploaded in the system before the tender closing date and time. Also, they must ensure that above documents which are to be submitted in a sealed envelope are also submitted at the above mentioned address before the bid closing date and time failing which the offer shall be rejected.
6. Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.
7. All the Bids must be Digitally Signed using "Class 3" digital certificate (*e-commerce application*) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.
8. Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

**Specification of item:**

A. SKID MOUNTED HYDRAULIC POWER UNIT DRIVEN BY 60 HP ELECTRIC MOTOR WITH HYDRAULIC PUMP AND COMPLETE WITH HOSES HAVING THE FOLLOWING SPECIFICATION AND FEATURES: 1 NO.

a) **DETAILS OF MOTOR (Quantity 1 no):**

Flame proof, squirrel cage induction motor suitable for hazardous areas of oilfields, Zone I and Gas group IIA & II B, and, conforming to IS/IEC 60079-1.

<b>Parameter</b>	<b>Requirement</b>
Power Rating	60 HP
Voltage	415VAC + 10%
Frequency	50 Hz + 5%
Phases	3 (Three Phase)
Rated pf	0.8 or better
Insulation Class	“F” with temperature limited to Class “B”
Temperature Class	T4 as per IEC
Ambient Temperature	45 DegC
Humidity	95 %
Frame Size	E225 as per IS 1231
RPM	1500
Enclosure protection	IP 55 (minimum)
Enclosure type	Ex-d
Duty cycle	S1 (Continuous)
Cooling	TEFC (Totally Enclosed Fan Cooled)
Mounting	B3 (Foot mounted)
Rotation	Bi-directional
Efficiency	IE2 Class (Minimum)
Starting	Star Delta starting
Make	Kirloskar / CGL / Marathon / LHP / BB

b) **DETAILS OF STARTER (Quantity 1 No):**

Flame proof (Type Ex-d) Star Delta starter, suitable for the above motor with a provision for local and remote start/stop. The minimum rating of the starter should be 60 HP. Starter should be mounted suitably on the same skid.

The starter should contain the following features:

- i) Contactors for motor starting duty (Star Delta), rated for the motor supplied.
- ii) Overload Relay – with hand (Manual) reset. The manual reset function should be carried out without opening the starter cover.
- iii) Start-Stop push buttons to start and stop the motor; with all interlocks in place.
- iv) 415 VAC control coil in the contactor (as the system has no neutral wire).
- v) It should be provided with suitable size flame proof double compression glands for one incoming copper power cable and 2 numbers outgoing copper power cables. One more suitable size flame proof double compression cable gland should be provided for connecting copper cable for remote flame proof PBS fitted with Start and Stop push buttons.
- vi) One flame proof remote start/stop push button station with suitable flame proof double

compression gland and 30 meter long EPR insulated copper cable should also be supplied.

vii) Starter must be mounted with Strong & Rigid bracket with minimum 8 numbers of not less than 3/8 inches diameter high-tension bolts.

Bidders are required to forward details of all the components used in the starter panel, like contactor, O/L relay and other protective devices, i.e. fuses, switches, etc. with its make and rating.

**c) DETAILS OF PUSH BUTTON STATION (Quantity 1 no):**

A PBS should be supplied for remote Start / Stop of the motor. The START/ STOP Push Button Switch should be Flameproof (Type Ex-d, as per IS/IEC 60079-1), suitable for hazardous areas of oilfields, Zone I and Gas group IIA & II B, with provisions of cable entry and exit through double compression cable glands.

<b>Parameter</b>	<b>Requirement</b>
Ratings	10 Amps, 415V AC, 50 Hz
Components	1 NO + 1NC ; RED for STOP and GREEN for START with mechanical interlock on STOP Button
Materials of construction	Die Cast Aluminium Alloy LM6
Enclosure	Flame proof Exd as per IS/IEC 60079-1
Protection	IP-55 (minimum)
Finish	Anti-corrosive Epoxy light Gray shade 631
Weight	2.25 Kg (approx)
Earthing	Provision for one no earthing stud inside and two number earthing stud outside of the PBS
Cable entry	2 nos, at bottom with 3/4" ET thread
Rain hood/canopy	Suitable size canopy to be provided with PBS for rain water protection
Make	CEAG/Sudhir/Baliga/FCG or equivalent

**d) DETAILS OF JUNCTION BOX (Quantity 1no):**

One Flame-proof Junction Box should be provided for connection of incoming, outgoing cables. Make and certifications are to be indicated in the quotation. This should be mounted in the same skid with motor. The Junction Box should be Flameproof (Type Ex-d, as per IS/IEC 60079-1), with provisions of cable entry and exit through double compression cable glands.

**e) CABLES:**

The inter connection between motor, starter and Junction Box to be done by supplier with suitable size (4 core x 35 sq. mm) EPR insulated and CSP sheathed, screened copper cable through explosion proof double compression cable glands.

Another 4 core X 1.5 sq mm, 30 meter length EPR insulated and CSP sheathed, screened copper cable should be supplied for remote operation of the motor from the PBS.

f) Starter & Junction Box must be mounted with Strong & Rigid bracket with 3/8 inches diameter high-tension bolts.

**g) STATUTORY REQUIREMENT:**

All flame-proof electrical equipment/items like Motor, Starter, Remote switch, Cable glands etc used in hazardous area must have CIMFR (India) or Equivalent certification from competent authorities from the country of origin. Copies of such certificates for each piece of equipment should be enclosed with the quotation as well as with the supply of materials. All these equipment must be approved by DGMS (India) for use in Hazardous area Zone-1; Gas groups IIA & IIB of oil mines. **(Refer DGMS approval clauses 3 & 4 under General Notes to Bidders).**

- h) Wiring & schematic drawing of the electrical system and dimensional drawing of the motor must be provided along with the technical offer.
- (i) Electrical System available at the well-site is 3 phase 3 wire, without neutral. The motor starting and running system should thus be designed for 3 phase 3 wire system, without neutral.
- (j) Oil India shall provide one power cable from the source of power up to the Junction Box. All other cabling and control wiring is in the scope of supplier.
- k) The motor, Tank skid & Push Button should be provided with two distinct suitably rated body earthing points.
- l) The Electrical system and DGMS approvals shall be inspected / tested during pre dispatch inspection at the manufacture's works. Dispatch clearance will be given only after successful completion of the same.
- m) 450 liters (approx.) capacity hydraulic oil reservoir, complete with baffles, drain level indicators, Filter & Breather assembly, Suction Strainer and Return Line Filter (10 micron)
- n) Hydraulic Vane Type Pump "Commercial" make or equivalent with minimum flow rate of 65 GPM (246 LPM) at 1000 psi (70.3 kg/cm<sup>2</sup>) and minimum flow rate of 30 GPM (114 LPM) at minimum 3000 psi (210.92 kg/cm<sup>2</sup>) with Maximum operating temperature of 80-85 degree Celsius & Normal operating temperature of 50-55 degree Celsius.
- o) The Hydraulic Unit should be complete with:
- i. Commercial make or equivalent Relief & Un-loader valve.
  - ii. Commercial make or equivalent Check valve.
  - iii. Double universal joint type coupling for prime mover & hydraulic unit.
  - iv. 0-5000 psi ( 0-351.5 kg/cm<sup>2</sup>) dual scale pressure gauge.
- v) 70 GPM (265 LPM) cooling capacity heat exchanger with 1.1/4 inches (31.75 mm) inlet & outlet connector for oil and 1 inches (25.4 mm) inlet & outlet connection for water. The Heat Exchanger should be designed to maintain normal operating temperature of the Hydraulic Gear Pump (50-55 degree Celsius) during operation.
- p) The unit should be mounted on heavy duty oilfield skid with provision for lifting & overhead cage for accommodating 4 numbers of inlet/outlet hoses & electrical cable (30 meter long) with remote switch. The dimensions should be restricted to 4 meters in length & 2 meters in width.
- q) The hydraulic pump must be fitted outside the hydraulic oil reservoir.
- r) All hydraulic fittings, piping, etc. should be outside the oil reservoir. Hydraulic network should comprise of 1 inch (25.4 mm) high pressure steel pipes, swivels & hammer unions wherever required. Any connections with rubber hose will not be acceptable.
- B) Accessories for above:**
- a) 1" x 60 ft. (25.4 mm X 18.29 meters) high pressure hose, 4000 PSI (281.3 kg/sq cm) WP with self-sealing coupling (aero-quip type) and dust caps / plug companion = 4 Numbers
  - b) 1.1/4' x 60 ft. (31.75 mm X 18.29 meters) return hose, 500 PSI (35.16 kg/sq cm) WP with self sealing coupling (aero equip type) and dust cap / plug.= 4 Nos.
- C) Operation, maintenance, service & instructions manuals having detailed Schematic drawing indicating each & every part with part numbers = 2 sets

## **GENERAL NOTES FOR BIDDERS:**

1. Bidder should furnish detailed Catalogue, Drawing, and Literature (in printed form, not in computer media such as floppies or CDs) indicating all parts with part numbers along with the quotation in English language (US & UK). Bidder should also furnish single line diagram of motor starter & hydraulic line diagram of the Power unit along with the quotation.
2. Bidder should furnish list of recommended spares for two (02) years operation indicating part numbers, quantity and unit price of each and every spares separately along with the quotation in the commercial bid and categorically confirm the same in the technical bid (price will not be considered for commercial evaluation). The price should remain valid for at least two (02) years.
3. Electrical / Electronic equipment shall be CIMFR (or equivalent) certified and DGMS approved. The CIMFR certificate number and DGMS approval number shall be affixed or embossed on each piece of equipment. In case DGMS approved electrical / electronic equipment is not available, the same shall be supplied with DGMS field trial permission certification. The field trial may be carried out in any E&P company operating in India or during the use of the item for which it is procured.
4. The payment of DGMS approved electrical / electronic equipment will be as per normal terms and conditions of the order. However, payment for the electrical / electronic equipment supplied with DGMS field trial permission shall be to the extent of 50% of the cost of the equipment against dispatch / shipping documents. The balance 50% shall be made on submission of DGMS approval only. Bidders to quote the price of the electrical / electronic equipment separately for which DGMS approval is not available.
5. The Bidder should indicate the name of the manufacturer, the country of origin and port of dispatch of the materials.
6. Items in the event of order should be embossed (die stamping) with purchase order number & date. Bidders shall confirm compliance to the same while quoting.
7. Delivery period: - Bidders are requested to quote their best delivery period.
8. Any deviation(s) from the tender specification should be clearly highlighted specifying justification in support of deviation.
9. Bidders are to quote for all the items as indicated in the NIT, failing which the bid will be rejected. The same should be confirmed by the Bidder in the technical bid.
10. Payment : Payment shall be released as follows:
  - a) Goods supplied with valid DGMS Approval:
    - i) 90 % of the supply value shall be released against proof of despatch/shipment of the goods and submission of valid DGMS certificate.
    - ii) Remaining 10 % of the supply value shall be paid after receipt and acceptance by OIL.
  - b) Goods supplied without DGMS approval, but with Field Trial Permissions only:

- i) 50 % of the supply value shall be released against proof of despatch/shipment of the goods and submission of valid DGMS field trial permission certificate.
- ii) 50% of the supply value shall be released on receipt of valid DGMS certificate.

**SPECIAL NOTES :**

1. The items shall be brand new, unused & of prime quality. Bidder shall warrant (in the event of an order) that the product supplied will be free from all defects & fault in material, workmanship & manufacture and shall be in full conformity with ordered specifications. This clause shall be valid for 18 months from date of despatch/shipment or 12 months from date of receipt of the item at site which ever is earlier. In case of breakdown during the warranty period, a competent service engineer of the supplier shall make as many visits as shall be necessary to rectify the system. The supplier shall provide all spares required for making the system operational. Bidders must confirm the same while quoting.
2. Validity of the offers should be 120 days from the date of bid opening. Bids with lesser validity shall be summarily rejected.
3. The items covered by this tender shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence Nil Customs Duty during import will be applicable. Indigenous bidder shall be eligible for Deemed Export Benefit against this purchase. Details of Deemed Export are furnished vide Addendum to MM/GLOBAL/01/2005 enclosed. However no Recommendatory letter will be issued to Indian Bidders.
4. Technical and Commercial Check-List vide **Annexure- C** shall be filled-up and submitted along with the offer.
5. To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in to must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.
6. Other terms and conditions of the tender shall be as per “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders). However, if any of the Clauses of the Bid Rejection Criteria (BRC) / Bid Evaluation Criteria (BEC) mentioned here contradict the Clauses in the “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders) of the tender and/or elsewhere, those mentioned in this BEC / BRC shall prevail.



## ANNEXURE- B

### **BID REJECTION CRITERIA (BRC)/BID EVALUATION CRITERIA (BEC)**

#### **BID REJECTION CRITERIA:**

The bids shall in general conform to the specifications and terms and conditions given in the tender. Bids shall be rejected in case the goods offered do not conform to the required minimum/maximum parameters stipulated in the technical specifications and to the respective international / national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the following requirements will have to be particularly met by the bids, without which the same will be considered as non-responsive and be rejected.

#### **A. BRC TECHNICAL:**

1. Bids are only invited from manufacturer of Hydraulic power unit.
2. The bidder should purchase the brought out items, if any, from the original equipment manufacturer (OEM) or authorized dealer of those items. Purchase documents should be provided along with the supply of the item. Bidder to confirm compliance of the same in the technical bid.
3. The bidder should have the experience of supplying at least 3 (three) numbers of similar Hydraulic Power Unit in the last 3 (three) years preceding the bid closing date of this tender.
4. Documentary evidence to substantiate supply record should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the documents in respect of satisfactory execution of each of those Purchase Orders, such as:
  - (i) Satisfactory Inspection report (OR)
  - (ii) Satisfactory supply completion/ Installation / Commissioning report (OR)
  - (iii) Delivery challans received by Consignee (OR)
  - (iv) Central Excise Gate Pass/ Tax Invoice issued under relevant rules of Central Excise/ VAT

Note: Order copy to be enclosed with relevant page number bearing signature of purchaser or authenticated by purchaser.

5. The Bidder must guarantee uninterrupted supply of spares and availability of service for at least 10 years with effect from delivery of the Item / product for the item / product to be supplied under the Tender / Order, if order is awarded to them by OIL.

#### **B. COMMERCIAL:**

1. Bids are invited under **Single Stage Composite Bid System**. Bidders shall quote accordingly under Single Stage Composite Bid System.



**2. Bid security of US \$ 844.00 or Rs. 54,280.00** shall be furnished as a part of the TECHNICAL BID (refer Clause Nos. 9.0 & 12.0 (Section A) of “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders)). **Any bid not accompanied by a proper bid security in ORIGINAL will be rejected without any further consideration.** A bid shall be rejected straightway if Original Bid Security is not received within the stipulated date & time mentioned in the Tender and/or if the Bid Security validity is shorter than the validity indicated in Tender and/or if the Bid Security amount is lesser than the amount indicated in the Tender.

2.1 For exemption for submission of Bid Security, please refer Clause No. 9.8 (Section A) of “General Terms & Conditions” for e-Procurement as per Booklet No. MM/GLOBAL/E-01/2005 for E-procurement (ICB Tenders).

2.2 The Bank Guarantee towards Bid Security shall be valid upto **04.06.2016**.

3. Validity of the bid shall be minimum 120 days from the date of Bid Closing Date. Bids with lesser validity will be summarily rejected.

4. Bidders must confirm that Goods, materials or plant(s) to be supplied shall be new of recent make and of the best quality and workmanship and shall be guaranteed for a period of 18 months from the date of shipment/dispatch or twelve(12) months from the date of receipt of the items at site, whichever is earlier against any defects arising from faulty materials, workmanship or design. Defective goods/materials or parts rejected by OIL shall be replaced immediately by the supplier at the supplier's expenses at no extra cost to OIL.

5. Successful bidder will be required to furnish a Performance Bank Guarantee @10% of the order value. The Performance Bank Guarantee must be valid for 12 (twelve) months from the date of receipt/acceptance of goods or 18 months from the date of shipment/dispatch, whichever is earlier. Bidder must confirm the same in their Technical Bid. Offers not complying with this clause will be rejected.

6. Bidders are required to submit the summary of the prices in their price bids as per bid format (Summary), given below :

**i) Price Bid Format ( SUMMARY ) for Foreign Bidders:**

- (A) Total Material Value :**
- (B) Packing & FOB Charges :**
- (C) Total FOB Port of Shipment value, ( A + B ) above :**
- (D) Overseas Freight Charges upto Kolkata, India :**
- (E) Insurance Charges :**
- (F) Total CIF Kolkata value, ( C + D + E ) :**
- (G) Total CIF Kolkata Value in words :**
- (H) Gross Weight :**
- (I) Gross Volume :**

**ii) Price Bid Format (SUMMARY) for Indigenous Bidders:**

- (A) Total Material Value:
- (B) Packing and Forwarding Charges:
- (C) Total Ex-works value, ( A + B ) above :
- (D) Excise Duty with Education Cess, (Please indicate applicable rate of Duty)
- (E) Sales Tax, (Please indicate applicable rate of Tax)
- (F) Total FOR Despatching station price, ( C + D + E ) above
- (G) Road Transportation charges to Duliajan
- (H) Insurance Charges
- (I) Assam Entry Tax
- (J) Total FOR Duliajan value, ( F + G + H + I ) above
- (K) Total FOR Duliajan value in words :
- (L) Gross Weight :
- (M) Gross Volume :

**NOTE:**

1. The items covered under this enquiry shall be used by OIL in the PEL/ML areas issued/renewed after 01/04/99 and hence, applicable Customs Duty for import of goods shall be ZERO .Indigenous bidders must quote Deemed Export prices. Excise Duty under Deemed Export exempted.
  2. Banking charges in the country of the foreign bidder shall be borne by the bidder
- vi) The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.
- vii) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.
- viii) Bids containing incorrect statement will be rejected.

**(II) BID EVALUATION CRITERIA (BEC) :**

Bids conforming to the specifications, terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria will be considered for further evaluation as per the Bid Evaluation Criteria mentioned in Section D of “General Terms & Conditions” for e- Procurement as per Booklet No. MM/GLOBAL/E-01/2005.

=====

## ANNEXURE-C

### **(A) TECHNICAL CKECKLIST:**

1	Whether the hydraulic power unit feature hydraulic gear pump?	Yes/ No
2	Whether the hydraulic power unit is capable of delivering a flow rate of 65 GPM (246 LPM) at around 1000 psi (70.3 kg/cm <sup>2</sup> ) and 30 GPM (114 LPM) at around 3000psi (210.92 kg/cm <sup>2</sup> )?	Yes/ No
3	Whether the maximum operating temperature of the hydraulic power unit is 80-85 degree Celsius?	Yes/ No
4	Whether the normal operating temperature of the hydraulic power unit is 50-55 degree Celsius?	Yes/ No
5	Whether the capacity of the hydraulic oil reservoir is 450 liters (approx.) and is complete with baffles, drain level indicators, Filter & Breather assembly, Suction Strainer and Return Line Filter (10 micron)?	Yes/ No
6	Whether the hydraulic power unit will feature a 70 GPM (265 LPM) cooling capacity heat exchanger with 1.1/4 inches (31.75 mm) inlet & outlet connector for oil and 1 inches (25.4 mm) inlet & outlet connection for water?	Yes/ No
7	Whether the Heat Exchanger is designed to maintain the normal operating temperature of the Hydraulic Gear Pump during operation?	Yes/ No
8	Whether the hydraulic power unit will be mounted on heavy duty oilfield skid with provision for lifting?	Yes/ No
9	Whether the hydraulic power unit will feature overhead cage for accommodating hoses & electrical cables?	Yes/ No
10	Whether the dimensions of the hydraulic power unit will be restricted to 4 meters in length & 2 meters in width?	Yes/ No
11	Whether the hydraulic pump, hydraulic fittings, piping, etc are fitted outside the hydraulic oil reservoir?	Yes/ No
12	Whether the hydraulic network comprises of 1 inch (25.4 mm) high pressure steel pipes, swivels & hammers unions wherever required?	Yes/ No

### **TECHNICAL CKECKLIST (Electrical)**

1	Offered Motor is as per specification or not?	Yes/ No
2	Offered PBS, Junction Box, Starter are as per specification or not?	Yes/ No
3	Certification for all the flame-proof electrical equipment/items like Motor, Starter, Remote switch, Cable glands etc from CIMFR (India) or Equivalent are enclosed with the offer or not? (If not please specify when it will be provided).	Yes/ No
4	DGMS approval of the offered motor and other FLP equipments (PBS, Starter, Junction Box) enclosed or not? (If not please specify when it will be provided).	Yes/ No
5	Whether offered Remote PBS is supplied with 30 meter EPR cable or not?	Yes/ No
6	Control voltage of the starter contactor is 415 V AC or not ?	Yes/ No
7	Wiring & schematic drawing of the electrical system and dimensional	Yes/ No

	drawing of the motor is provided along with the technical offer ?	
8	Offered Electrical equipments (Motor, Starter, PBS, Junction Box) and the Skid is provided with two suitable distinct body earthing points ?	Yes/ No

**STANDARDS APPLICABLE (ELECTRICAL):**

Motors should conform to these standards, or latest iterations thereof:

IS 325	Three phase Induction motors-specification
IS 900	Code of practice for installation and maintenance of induction motors
IS 1231	Dimension of three-phase foot mounted A.C. Induction motors
IS 1271	Specification for Thermal Evaluation and Classification of Electrical Insulation
IS 4029	Guide for testing three phase induction motors
IS 4691 / IEC 60529	Degree of protection provided by Enclosures for Rotating Electrical Machinery
IS 6362	Designation of methods of cooling for rotating electrical machines
IS 12065	Permissible limits of noise level for rotating electrical machines
IS 12075	Mechanical vibration of rotating electrical machines
IS 12615	Energy Efficient Induction motors - Three phase, squirrel cage
IEC 60045-1, 5	Rotating electrical machines - Rating and performance, degrees of protection
IEC 60072	Dimension and output ratings of rotating electrical machines
IS/IEC 60079-1	Electrical Apparatus for explosive gas atmospheres – flameproof enclosures “d”
IS 5571	Guide for selection of electrical equipment for hazardous areas
IS 5572	Classification of hazardous areas (other than mines) having flammable gases and vapors for electrical installation
IS 13346	General requirements for electrical apparatus for hazardous areas
IS 9570	Classification of flammable gases or vapours with air according to MESG and Minimum igniting currents.
IS 7572 : 1974	Guide for Testing Single-phase AC and Universal Motors
IS 7816 : 1975	Guide for testing insulation resistance of rotating machines

**(B) COMMERCIAL CHECK-LIST**

Sl. No.	PARAMETERS/REQUIREMENTS	BIDDER RESPONSE	REMARKS IF ANY
1.	Whether Original Signed quotation submitted?	YES/NO	
2.	Whether quoted as manufacturer?	YES/NO	
3.	Whether quoted as authorized dealer? [To Specify]	YES/NO	
4.	If quoted as authorized dealer,		
5.	(a)Whether submitted valid and proper authorization letter from manufacturer IN ORIGINAL confirming that bidder is their authorized dealer for the product	YES/NO	

	offered?	
6.	(b)Whether manufacturer's back-up Warranty/Guarantee certificate submitted?	YES/NO
7.	Whether ORIGINAL Bid Bond (not copy of Bid Bond) enclosed with the offer? If YES, provide details	YES/NO
	(a) Amount :	
	(b) Name of issuing Bank :	
	(c) Validity of Bid Bond :	
8.	Whether offered firm prices?	YES/NO
9.	Whether quoted offer validity of 120 days from the date of closing of tender?	YES/NO
10.	Whether quoted a firm delivery period?	YES/NO
11.	Whether quoted as per NIT (without any deviations)?	YES/NO
12.	Whether any deviation is there in the offer?	YES/NO
13.	Whether deviation separately highlighted?	YES/NO
14.	Whether agreed to the NIT Warranty clause?	YES/NO
15.	Whether Price Bid submitted as per Price Schedule?	YES/NO
16.	Whether indicated the country of origin for the items quoted?	YES/NO
17.	Whether all the items of tender quoted?	YES/NO
18.	Whether technical literature/catalogue/drawings enclosed?	YES/NO
19.	For Foreign Bidders - Whether offered FOB/FCA port of dispatch including sea/air worthy packing & forwarding?	YES/NO
20.	For Foreign Bidders – Whether port of shipment indicated? [To specify]	YES/NO
21.	For Foreign Bidders only - Whether indicated ocean freight up to C&F Kolkata port (Excluding marine insurance)?	YES/NO
22.	Whether Indian Agent applicable?	YES/NO
	If YES, whether following details of Indian Agent provided?	
	(a) Name & address of the agent in India – To indicate	
	(b) Amount of agency commission – To indicate	
	(c) Whether agency commission included in quoted material value?	YES/NO
23.	Whether weight & volume of items offered indicated?	YES/NO
24.	Whether confirmed to submit PBG as asked for in NIT?	YES/NO
25.	Whether agreed to submit PBG within 30 days of placement of order?	YES/NO
26.	For Indian bidders – Whether place of dispatch indicated in the offer? [To specify]	YES/NO
27.	For Indian bidders – Whether road transportation charges up to Duliajan quoted?	YES/NO
28.	For Indian Bidders only - Whether offered Ex-works price including packing/forwarding charges?	YES/NO
29.	For Indian Bidders only - Whether offered Deemed Export prices?	YES/NO
30.	Whether quoted prices are exclusive of Excise duty?	YES/NO
31.	For Indian bidders only – whether import content indicated in the offer?	YES/NO
32.	For Indian Bidders only - whether all Taxes have been indicated categorically?	YES/NO
33.	Whether all BRC/BEC clauses accepted?	YES/NO

=====