

Tender
For
Supply of Lubricating Oil for DG sets installed at
33kV sub-station
At
All India Institute of Medical Sciences, Jodhpur

NIT No. : Admn/Tender/112/2016-AIIMS.JDH

NIT Issue Date : 17th February, 2017

Pre Bid Meeting : 27th February, 2017 at 03.00 PM

Last Date of Online Submission : 14th March, 2017 at 03.00 PM

Bid Opening Date : 15th March, 2017 at 03.00 PM

Tender documents may be downloaded from web site www.aiimsjodhpur.edu.in,
(for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app>



All India Institute of Medical Sciences, Jodhpur

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES, JODHPUR

NOTICE INVITING TENDER

01	Name of work	Supply of lubricating oil for DG sets installed at 33kV sub-station of AIIMS, Jodhpur.
02	Tender No.	Admn/Tender/112/2016-AIIMS.JDH
03	Contract period	15 days
04	Estimated Cost	Rs. 6,86,742/-
05	Earnest money deposit	Rs. 13,735/-
06	Cost of tender Fees (Non- refundable)	Rs.1,000/- (Rupees One thousand only)
07	Tender documents	Download from www.aiimsjodhpur.edu.in https://eprocure.gov.in
08	Pre-bid meeting	27th February, 2017 03:00 PM at Committee room, Administration Block, Medical College, AIIMS, Jodhpur.
09	Last date and time, place of submission	14th March, 2017 03:00 PM at Administration Block, Medical College, AIIMS, Jodhpur.
10	Date time and place of tender opening of technical bid.	15th March, 2017 04:30 PM in the Committee room, Medical College, AIIMS, Jodhpur

Please read carefully the notes given with the tender Notice.

**Administrative Officer
AIIMS, Jodhpur**

All India Institute of Medical Sciences (AIIMS), Jodhpur, Rajasthan, an apex healthcare institute established by an Act of Parliament of India under aegis of Ministry of Health & Family Welfare, Government of India, invites **Online bids in two bid system** for tenders for Supply of lubricating oil for DG sets installed at 33kV sub-station of AIIMS, Jodhpur. You are requested to quote your best offer along with the complete details of specifications, terms & conditions.

S. No.	Details of items	Make	Qty.	EMD (In Rs.)
1.	Supply of lubricating oil for Cummins-Sudhir make 2000kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLINE	1600 Liters	Rs. 13,735/-
2.	Supply of lubricating oil for Cummins-Sudhir make 1010kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLINE	435 Liters	

(Refer Details as per Annexure – “I,”)

Instructions for the Tenderer/ Contractor/ Bidders:-

- Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.**
- The complete bidding process in online. Bidders should be possession of valid digital Signature Certificate (DSC) of class II or III for online submission of bids. Prior to bidding DSC need to be registered on the website mentioned above. For any assistance for e-bidding process, if required, bidder may contact to the helpdesk at 0291-2740741.
- Tenderer/Contractor/Bidders are advised to follow the instructions provided in the ‘Instructions to the Contractors/Tenderer/Bidders for the e-submission of the bids online through the Central Public Procurement Portal for e Procurement at <https://eprocure.gov.in/eprocure/app>’.**
- Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- Tender Cost Fee:**
Applicant contractor must submit the demand draft for **Rs 1,000/- (Rupees One thousand only)** in favour of AIIMS, Jodhpur obtained from any Nationalized/ scheduled Bank valid for six months as a tender fees. All applicable bank charges shall be borne by the applicant and he shall not have any claim what so ever on this account on Government. The Demand Draft submitted for tender fee shall be non-refundable. **The demand drafts for tender fees must deliver to AIIMS, Jodhpur on or before last date/time of Bid Submission.**
- EMD Payment:**
The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of **Rs. 13,735/- (Rupees Thirteen Thousand Seven Hundred Thirty Five Only)** by way of demand drafts or Bank Guarantee only. The demand drafts or Bank Guarantee shall be drawn in favour

of “**All India Institute of Medical Sciences, Jodhpur**”. The EMD of the successful bidder shall be returned after the successful submission of Bank Guarantee/ Security Deposit and for unsuccessful bidder(s) it would be returned after award of the contract. **The demand drafts or Bank Guarantee for EMD must deliver to AIIMS, Jodhpur on or before last date/time of Bid Submission.**

- a) Tenderer shall not be permitted to withdraw his offer or modify the terms and conditions thereof. In case the tenderer fail to observe and comply with stipulation made herein or backs out after quoting the rates, the aforesaid amount of earnest money will be forfeited.
- b) The Firm who are registered with National Small Industries Corporation (NSIC) / OR Small Scale Industries (SSI) are exempted to submit the EMD (Copy of registration must be provide along with technical bid)
- c) The EMD, in case of unsuccessful Bidders shall be retained by AIIMS, Jodhpur till the finalization of the tender. No interest will be payable by AIIMS, Jodhpur on the EMD.

7. **The Hard Copy of original instruments in respect of cost of tender document, earnest money deposit etc. must be delivered to the AIIMS, Jodhpur on or before last date/time of Bid Submission as mentioned above. The bid without tender fee and EMD will be summarily rejected.**

8. **Submission of Tender:**

The tender shall be submitted online in two part, viz., technical bid and financial bid. All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

I. **Technical Bid**

The following documents are to be furnished by the bidder along with **Technical Bid** as per the tender document:

- a) Duly filled format of Technical Bid as per Annexure – II.
- b) Copy of constitution or legal status of the bidder manufacturer / Sole proprietorship / firm / agency etc.
- c) **The technical bid should be accompanied by Demand draft of Rs. 1000/- (non-refundable) against tender fee and Demand Draft for an amount of Rs. 13,735/-. The Demand Draft of tender fee and EMD should be prepare separately and drawn in favour of All India Institute of Medical Sciences, Jodhpur.**
- d) Certificate of Manufacture or their authorized Distributor or Dealer.
- e) Copy of Income Tax Return Acknowledgement for last Three years.
- f) Copy of PAN Card / Service Tax Registration.
- g) Copy of Sales tax / VAT registration certificate.
- h) Certificate as per given Annexures.
- i) Catalog/ brochure/Technical Data
- j) Duly Signed Tender document and their annexures.
- k) All other document mentioned in tender document.

II. **Financial Bid**

- a) Price bid Form [As per Annexure-VII duly filled and signed] - Price must be quoted as per format specified; failing which tender shall be summarily rejected.

General Term & Conditions

1. **"PRE –BID Meeting"** with the intending bidders shall be held on **27th February, 2017 at 03:00 P.M. onwards at Conference Hall, AIIMS Jodhpur**. All the prospective bidders are requested to send comments/ representations on or before pre-bid meeting. Intending bidder will be allowed to seek clarification on specification, Conditions of Contract, etc. in writing to AIIMS, Jodhpur, within 48 hours after the pre-bid meeting.

2. **Validity:** The quoted rates must be valid for a period for 180 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quoted the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

3. **Rate:** Prices of individual items should be inclusive of all taxes and duties including, Customs Duty, Excise Duty, etc. It should also include packing, forwarding, transport, insurance, loading/ unloading, installation etc. VAT/ CST/ local taxes shall be extra. Rate should be quoted only in Indian Rupees (INR) on DOOR Delivery Basis at AIIMS, Jodhpur, Rajasthan, Inclusive of all the Charges, with break-ups as:

- Basic Cost.
- VAT/CST/ST/Other taxes.
- Total Cost (F.O.R. at AIIMS, Jodhpur).

4. **Manufacture authorization Certificate:** The bid must be submitted by Manufacture or their authorized Distributor or Dealer (certificate must be upload)

5. **Make shall be only as per original DG manufacturer's recommendation. ;(Refer to Annexure – IV, V & VI)**

6. **Successful bidder must submit Manufacturer's Test Certificate for the material to be supplied.**

7. **Technical Evaluation:**

(a) Detailed technical evaluation shall be carried out by Institute pursuant to conditions in the tender document to determine the substantial responsiveness of each tender. For this clause, the substantially responsive bid is one that conforms to all the eligibility and terms and condition of the tender without any deviation. The Institute's

determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. The Institute shall evaluate the technical bids also to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed and whether the bids are in order.

- (b) AIIMS Jodhpur shall have right to accept or reject any or all tenders without assigning any reasons thereof.

8. Financial Evaluation:

(a) The financial bid shall be opened of only those bidders who have been found to be technically eligible. The financial bids shall be opened in presence of representatives of technically eligible bidders, who may like to be present. The institute shall inform the date, place and time for opening of financial bid.

(b) Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and total price that is, the unit price shall prevail and the total price shall be corrected by the Institute. If there is a discrepancy between words and figures, the lesser amount shall be considered as valid. If the Supplier does not accept the correction of the errors, his bid shall be rejected.

(c) After due evaluation of the bid(s) AIIMS, Jodhpur will award the contract to the lowest evaluated responsive tenderer. Conditional bid will be treated as unresponsive and will be rejected.

9. The bidders are requested to visit site and get familiarized with local condition before submission of tender.

10. Right to issue and to accept or reject any or all tenders without assigning any reason thereof is reserved by the Competent Authority.

11. **Award of Contract:** The Institute shall consider placement of orders for jobs on those bidders whose offers have been found technical and financially acceptable. The Institute reserves the right to counter offer price(s) against price(s) quoted by any bidder.

12. **Signing of Contract:** The successful bidder shall be required to execute the Contract Agreement accepting all terms and conditions stipulated herein on a non-judicial stamp paper of Rs. 500/- (Rs. Five Hundred only) within fifteen days of the issue of the Letter of notification of award along with performance security. In the event of failure on the part of the successful bidder to sign the Contract within the period stipulated above, the EMD shall be forfeited and the acceptance of BID shall be considered as cancelled.

13. **Performance Security Deposit :** The successful tenderer will be required to furnish a Security Deposit of **10%** of order value in the form of Fixed Deposit Receipt or Bank Guarantee from any Nationalized Bank duly pledged in the name of the "**All India Institute of Medical Sciences, Jodhpur**" after receipt of supply order.

The security deposit can be forfeited by order of this Institute in the event of any breach or negligence or non-observance of any condition of contract or for unsatisfactory performance or non-observance of any condition of the contract. Security deposit will be discharged after completion of all the contractual obligations. The Security Deposit amount will not carry any interest.

14. **Authority of person signing document:** A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warranty, that he has authority to bind such other and if, on enquiry, it appears that the person so, signing had no authority to do so, the AIIMS, Jodhpur may without prejudice to other Civil and criminal remedies cancel contract and held the signatory liable for all cost and damages.
15. **Delivery:** The items shall be delivered within **15 days** from the issue of supply order at AIIMS, Jodhpur premises.

Note: - The supplier shall submit delivery challan for the material to be supplied with lot number mentioned on it.

All the aspects of safe delivery shall be the exclusive responsibility of the supplier. If the supplier fails to deliver the goods on or before the stipulated date, then a penalty at the rate of 0.5% per week of the total order value shall be levied subject to maximum of 10% of the total order value.

If at any time during the currency of the contract, the supplier encounters conditions hindering timely of the goods and performance of services, the supplier shall promptly inform the AIIMS, Jodhpur for extension of the delivery schedule accordingly. On receiving the supplier's communication, the AIIMS, Jodhpur shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

In the case of package supply where the delayed portion of supply materially hampers installation and commissioning of the systems, liquidated damages charges shall be levied as above on the total value of the concerned package of the purchase order. Quantum of liquidated damages assessed and levied by the purchaser shall be final and not challengeable by the supplier.

16. **Right of acceptance:** The AIIMS, Jodhpur reserve the right to accepting the whole or any part or portion of the bid; and the bidder shall provide the same at the rates quoted. The AIIMS Jodhpur reserve the right to reject any or all tenders /quotations or all offers received in response to the tender or cancel or withdraw the tender notice without assigning any reason thereof and also does not bind itself to accept the lowest quotation or any tender and no claim in this regard shall be entertained.

17. Inspection:

- (a) AIIMS, Jodhpur shall have the right to inspect and/or to test the goods to confirm their conformity to the NIT Specifications at no extra cost to the Purchaser.
- (b) AIIMS, Jodhpur right to inspect, test and, where necessary, reject the Goods after the goods arrival at the final destination shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by AIIMS, Jodhpur prior to the goods shipment.
- (c) The Director, AIIMS Jodhpur shall be the final authority to reject full or any part of the supply which is not confirming to the specification and other terms and conditions.
- (d) No payment shall be made for rejected Stores. Rejected items must be removed by the Bidders within two weeks of the date of rejection at their own cost and replaced immediately. In case these are not removed, these will be auctioned at the risk and responsibility of the suppliers without any further notice.

18. **Payment Term:** The Bill in triplicate may be send to this office for settlement after satisfactorily delivery of the material. The bill should have full particulars of the items.

No Payment shall be made in advance nor shall the loan from any or financial institutions be recommended on the basis of the order of award of work.

The Contractor shall submit the bill only after supply of the material to the satisfaction of the AIIMS Jodhpur. The case of issuing sanction and passing of bill for payment will be initiated on receipt of a pre-receipted invoice from the Contractor. No payment will be made for goods rejected.

19. **Specification:** Bids which are not meeting the bid specifications are not permitted and will be rejected.
20. **Breach of Terms and Conditions:** In Case of breach of any terms and conditions as mentioned above, the Competent Authority, will have the right to reject the bid at any stage without assigning any reason thereof and nothing will be payable by AIIMS, Jodhpur in that event the EMD shall also stands forfeited.
21. **Subletting of Work:** The firm shall not assign or sublet the work/job or any part of it to any other person or party without having first obtained permission in writing of AIIMS, Jodhpur, which will be at liberty to refuse if thinks fit. The tender is not transferable. Only one tender shall be submitted by one tenderer.
22. **Insolvency etc:** In the event of the firm being adjudged insolvent or having receiver appointed for it by a court or any other order under the Insolvency Act made against them or in the case of a company the passing any resolution or making of any order for winding up, whether voluntary or otherwise, or in the event of the firm failing to comply with any of the conditions herein specified AIIMS, Jodhpur shall have the power to terminate the contract without any prior notice.

23. **Arbitration:** If any difference arises concerning this agreement, its interpretation on payment to be made there-under, the same shall be settled out by mutual consultation and negotiation. If attempts for conciliation do not yield any result within a period of 30 days, either of the parties may make a request to the other party for submission of the dispute for decision by an Arbitral Tribunal containing Sole Arbitrator to be appointed by the Secretary, Department of Legal Affairs. Such requests shall be accompanied with a panel of names of three persons to act as the sole arbitrator. In case of such arbitrator refusing, unwilling or becoming incapable to act or his mandate having been terminated under law, another arbitrator shall be appointed in the same manner from among the panel of three persons to be submitted by the claimant. The provision of Arbitration and Conciliation Act, 1990 and the rule framed there under and in force shall be applicable to such proceedings.
24. The Purchase Committee will reject the quotations of the bidders whose quotation will not be found of quality required by AIIMS, Jodhpur. AIIMS, Jodhpur reserves the right to accept/ reject any quotation either in part or full without assigning any reason thereof, or award the contract to different supplier(s), for different item(s), if feasible after considering the credentials, manufacturing, capability, quality and distribution rights of the item(s). The firm are, therefore, requested to attach their credentials in regard to supply of items and experience in the field, distribution rights and their annual turnover.
25. The Tenderers should furnish a copy of S.T. /C.S.T./VAT registration number. Tenders not complying with this condition will be rejected.
26. VAT/ Taxes if payable extra should be clearly mentioned otherwise no VAT/Taxes charges will be paid.
27. The items will have to be supplied at AIIMS, Jodhpur. No transportation/ cartage charges will be provided for the same.
28. Bidder shall upload a copy of the tender document and addendum/corrigendum thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.
29. The Institute reserves the right to accept in part or in full or reject any or more tender(s) without assigning any reasons or cancel the tendering process and reject all tender(s) at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).
30. The AIIMS, Jodhpur reserve the right to accepting the whole or any part or portion of the bid; and the bidder shall provide the same at the rates quoted. The AIIMS Jodhpur reserve the right to reject any or all tenders /quotations or all offers received in response to the tender or cancel or withdraw the tender notice without assigning any reason thereof and

also does not bind itself to accept the lowest quotation or any tender and no claim in this regard shall be entertained.

31. Applicable Law:

- The contract shall be governed by laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/ processing.
- Any disputes are subject to exclusive jurisdiction of competent court and forum in Jodhpur, Rajasthan, India only
- The Arbitration shall be held in accordance with the provision of the Arbitration and conciliations Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on the both parties.
- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

**Administrative Officer
AIIMS, Jodhpur**

Annexure – I

Technical Bid

S. No.	Details of the Tenderer/Bidder	
1	Name of the Firm /Contractor / service provider	
2	Complete Address:	
3	Name of Proprietor/ Partner/ Managing Director / Director.	
4	State clearly whether it is sole proprietor or Partnership firm or a company or a Government Department or a Public Sector Organization	
5	Details of the Earnest Money Deposit (EMD) (Yes/No) DD No: Dated: Drawn on Bank: Amount: (Rupees.....)	
6	Details of the cost of the Tender documents (Yes/No) DD No: Dated: Drawn on Bank: Amount: (Rupees.....)	
7	Whether each page of NIT and its annexure have been signed and stamped	
8	Whether the firm is a registered firm Yes/No (upload copy of certificate).	
9	Manufacture authorization certificate	
10	Copy of VAT/CST/ST Registration	
11	Permanent Account No.	
12	Sale Tax Registration No.	
13	TIN No.(Copy must provide)	
14	VAT No. (Enclose the attested copy of VAT Certificate).	
15	Copy of Income Tax Return Acknowledgement for last Three years	
16	Any other information, if necessary	
17	Name and address of service center nearby Jodhpur	
18	Email ID	
19	Contact No.	

Note:- All Pages should be numbered & Indexed.

Date:

Place:

Name :

Business Address :

Signature of Bidder :

Seal of the Bidder :

Annexure - II

CERTIFICATE

(To be submitted on letter head of the company/ firm)

I hereby certify that the above firm has not been ever blacklisted by any Central/State Government/Public Undertaking/Institute on any account.

I also certify that firm will be supplied the item as per the specification given by Institution and also abide all the terms & conditions stipulated in tender.

I also certify that the information given in bid is true and correct in all aspects and in any case at a later date it is found that any details provided are false and incorrect, any contract given to the concern firm or participation may be summarily terminated at any stage, the firm will be blacklisted and Institute may imposed any action as per NIT rules.

Date:	Name	:
Place:	Business Address	:
	Signature of Bidder	:
	Seal of the Bidder	:

Annexure – III

(TECHNICAL BID)

Details of DG sets installed at 33kV load receiving sub-station at

AIIMS, Jodhpur

S. No.	Details of items	Make	Unit	Qty.
1.	Supply of lubricating oil for Cummins-Sudhir make 2000kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLINE	Liters	1600.00
2.	Supply of lubricating oil for Cummins-Sudhir make 1010kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLINE	Liters	435.00
Liters				2035.00

❖ **Make shall be only as per original DG manufacturer's recommendation. (Refer to Annexure – IV & V)**

Date:

Name :

Place:

Business Address :

Signature of Bidder :

Seal of the Bidder :

Annexure – IV

Specifications and Torque 11-3

This provides several advantages such as,

- Reduced wear and tear.
- Better high temp oxidation stability
- Optimum Lub oil consumption.
- Lesser crown land deposits on piston and valves.
- Better emission control
- Better cleanliness of internal passages and components.
- Less sludge formation due to improved dispersancy.
- Increased control on acid formation resulting in less corrosion of bearings and other components.

Cummins India Limited strongly recommends the use of SAE 15W40 Lub oil with API CH-4, CES 20071 & CES 20076 classification for all Cummins engines to get the various advantages and optimum performance from the engine.

As a comparative advantage we strongly recommend following brand of lube oil for Cummins engines.

Valvoline Cummins Premium Blue, API CH-4, CES 20071 & CES 20076.

This oil have a minimum TBN of 10.5 to counteract the higher sulphur content of high speed diesel available in India.



CAUTION

Beware of the spurious oils in the market. Bad oil quality is detrimental to engine performance. Hence oil should always be procured from the original manufacturer or the authorised distributor.

Lubricating oil to be used in the engine must meet all qualities as per manufacturer's specifications. Cummins India recommends audit checks of fresh engine oil to ensure the quality of oil. Facility to check suitability of oil for using it in the engine is available with Cummins service network.

If in doubt about the quality of lub oil, contact lub oil manufacturing company / Cummins service network and get oil analysed in laboratories.

CAUTION

Do not intermix different brands of oil as two different brands of oils may not be compatible with each other. It is there fore recommended that the brand which is used for initial fill / oil change, should only be used for top-up. Different brand of oil may be used after draining all the existing oil i.e., at the oil drain interval and after flushing the lub oil system with new brand of oil.

Note

The responsibility of meeting oil quality lies with the oil manufacturer & Cummins will not be responsible for problems occurring on engines due to poor quality of oil.

Grease Recommendations

Cummins India Limited Pune, recommends the use of grease meeting the specifications of MIL-G-3545, excluding those of sodium or soda soap thickeners. Contact lubricant supplier for grease meeting these specifications.

TEST	TEST PROCEDURE
High-Temperature Performance	
Dropping point, °F	ASTM D 2265 350 min.
Bearing life, hours at 300°F. 10,000 rpm	*FTM 331 600 min.
Low-Temperature Properties	
Torque, GCM Start at 0°F. Run at 0°F.	ASTM D 1478 15,000 max. 5,000 max.
Rust Protection and Water Resistance	
Rust test	ASTM D 1743 Pass
Water resistance, %	ASTM D 1264 20 max.
Stability	
Oil separation, % 30 Hours @ 212°F.	*FTM 321 5 max.
Penetration	
Worked	ASTM D 217 250-300
Bomb Test, PSI Drop 100 Hours 500 Hours	ASTM D 942 10 max. 25 max.
Copper, Corrosion	*FTM 5309 Pass
Dirt Count, Particles/cc 25 Microns + 75 Microns + 125 Microns + Rubber Swell	*FTM 3005 5,000 max. 1,000 max. None *FTM 3606 10 max.

* Federal Test Method Std. No. 791a

Annexure –V

Specifications and Torque 11-5

Coolant Specifications

Cooling System

Cummins engines are provided with fleetcool XB Coolant Additive Concentrate - (CAC) and premix coolant. To ensure adequate corrosion protection, checking coolant at every B Check is essential. The checking procedures and the details of the Coolant Checking Kit are given below :

Salient Features of CAC

- Safe / environmental & user friendly
- Easy operation, time saving at 'B' check.
- To be filled in through Radiator / make up (auxiliary) tank Cap
- Cost benefit to the customer at 'B' check.
- Easy checking process.

CAC Availability form and Checking

CAC is available in two forms,

- a) Coolant Additive Concentrate, which can be mixed with water of 1:16 proportion and,
- b) Pre-mixed coolant, which can be directly added in cooling system. To check the coolant concentration Test Strip and a Test Kit are available.

Make Up Coolant Specifications

Where possible, it is recommended that a supply of make-up coolant be prepared to the following specifications, using soft water. Chromate treatment of coolant assures constant level of concentration when coolant is added.

2. Coolant Additive Concentrate (CAC)

A. Coolant Additive Concentrate



It is supplied in plastic red colour containers having different part nos. for different volumes. The colour of the coolant additive concentrate is deep purple.



Part Number	Description	Qty.
3167214	Coolant additive concentrate	0.5 lt.
3167215	Coolant additive concentrate	1 lt.
3167216	Coolant additive concentrate	2 lt.
3167217	Coolant additive concentrate	5 lt.
3167218	Coolant additive concentrate	10 lt.

B. Pre-mixed Coolant

It is supplied in plastic white colour containers having different part nos. for different volumes. The colour of the coolant is pink.

Part Number	Description	Qty.
		<small>Effective from Aug. 04</small>
3167221	Pre-mixed Coolant	5 lt.
3167222	Pre-mixed Coolant	10 lt.
3167223	Pre-mixed Coolant	20 lt.
3167224	Pre-mixed Coolant	205 lt.

C. Test strip

New Test strip is introduced. Test strip is required to check coolant concentration and are packed individually in a foil pack.

Part Number	Description
4912590	Test strip

D. Test Kit

Test kits are supplied in cardboard boxes.

Part Number	Description
4912590	Test Kit

This consists of

- a) 2 test strips,
- b) a clear plastic beaker
- c) a dropper to collect the coolant.
- d) Fleetcool XB Concentration correction table part no. 4912783.

IMPORTANT NOTE

Shelf life for Coolant Additive Concentrate & Pre-mixed Coolant is 5 years & that of test strip is one year.

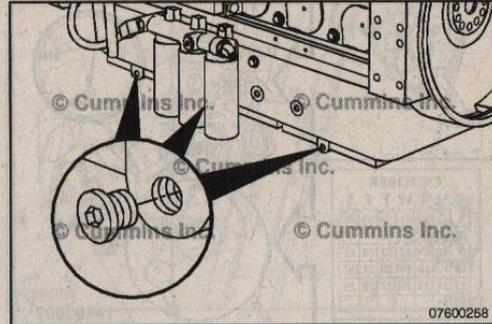
Annexure – VI

QSK45 and QSK60
Section 5 - Maintenance Procedures at 250 Hours or 1 Year

Fill

Install and tighten the drain plug(s).

Torque Value: 47 N•m [35 ft-lb]



Use a high quality 15W-40 multiviscosity oil that meets the American Petroleum Institute (API) performance classification CE or CF4 or better.



Choose the correct oil for the operating climate. Refer to Procedure 018-017 (Lubricating Oil System) in Section V.

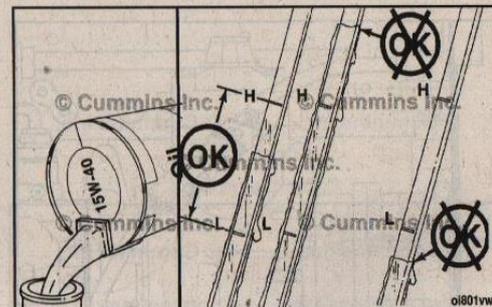
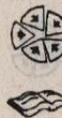


Fill the engine to the correct level with clean engine oil.

Refer to Procedure 018-017 (Lubricating Oil System) in Section V.

Check the oil level on the dipstick. The level **must** be to the high (H) mark on the dipstick.

Do **not** overfill. Drain off excess oil in a pan.



Annexure - VII

Financial Bid

**Details of DG sets installed at 33kV load receiving sub-station at
AIIMS, Jodhpur**

(To be submitted on the letterhead of the company / firm)

S. No.	Details of items	Make	Unit	Qty. (A)	Rate in Rs. (for per unit) (B)	VAT/Taxes (C)	Rate Per Unit Including Taxes D = (B+C)	Total Cost E=A*D
1.	Supply of lubricating oil for Cummins-Sudhir make 2000kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLIN E	Liters	1600				
2.	Supply of lubricating oil for Cummins-Sudhir make 1010kVA DG sets installed at 33kV load receiving sub-station of the Institute	VALVOLIN E	Liters	435				
Total Amount In Figure (Inclusive of all Taxes and Other Charges) E=A*D								
Total Amount In Word (Inclusive of all Taxes and Other Charges) E=A*D								

1. L1 will be decide on Composite Basis.

- I/We have gone through the terms & conditions as stipulated in the tender enquiry document and confirm to accept and abide the same.
- The contractor shall take into account all the costs involved in compliance of all the conditions, installation and required accessories as stated above while quoting his rates in tender.
- No other charges would be payable by the Institute.

Date: _____ Name _____ :

Place: _____ Business Address _____ :

Signature of Bidder _____ :

Seal of the Bidder _____ :