

OIL INDIA LIMITED
(A Government of India Enterprise)
P.O. Duliajan-786602, Assam, India
E-mail: material@oilindia.in

INVITATION FOR LOCAL COMPETITIVE BID

OIL INDIA LIMITED invites Local Competitive Bid (LCB) through its e-procurement portal <https://etender.srm.oilindia.in/irj/portal> for the following items:

E-Tender No	Bid Closing/Opening Date	Item Description
SDI1080P17 Dt. 13.05.2016 Single Stage Composite Bid System	30.06.2016	EXPLOSIVE (Qty. – 42,000 KG)
SDI1082P17 Dt. 13.05.2016 Single Stage Two Bid System	30.06.2016	5 POINT MANIFOLD (Qty. – 02 Nos.)
SDI1058P17 Dt. 10.05.2016 Single Stage Composite Bid System	30.06.2016	LED HIGH MAST (Qty. – 02 Nos.)
SDI0770P16 Dt. 06.04.2016 Single Stage Composite Bid System	30.06.2016	CARDIAC MONITOR (Qty. – 06 Nos.)
SDI1055P17 Dt. 10.05.2016 Single Stage Composite Bid System	30.06.2016	CABINET, RACK & WORKSTATIONS.
SDI1056P17 Dt. 10.05.2016 Single Stage Composite Bid System	30.06.2016	MULTIPARAMETER MONITOR (Qty. – 07 Nos.)
SDI0815P17 Dt. 12.04.2016 Single Stage Composite Bid System	30.06.2016	MAIN FEEDER PILLAR (Qty. – 05 Nos.)
SSI1063P17 Dt. 11.05.2016 Single Stage Composite Bid System	30.06.2016	M.S. ANGLES (80MT)
SSI1061P17 Dt. 11.05.2016 Single Stage Composite Bid System	30.06.2016	TMT STEEL BAR (100MT)
SSI1062P17 Dt. 11.05.2016 Single Stage Composite Bid System	30.06.2016	M.S. PLATE (25 MT)
SSI1065P17 Dt. 11.05.2016 Single Stage Composite Bid System	30.06.2016	CGI SHEET (8000 NOS.)
SSI1066P17 Dt. 11.05.2016 Single Stage Two Bid System	30.06.2016	CGI SHEET (4000 NOS.)

Tender fee (Non-refundable): Rs 1,000.00; Bid Closing/Opening Time: (11 Hrs.) IST/(14 Hrs.) IST; Period of sale of documents: **Till one week prior to bid closing date.** The complete bid documents and details for purchasing bid documents, participation in E-tenders are available on OIL's e-procurement portal <https://etender.srm.oilindia.in/irj/portal> as well as OIL's website www.oil-india.com.

NOTE: All addenda, Corrigenda, time extension etc. to the tenders will be hosted on above website and e-portal only and no separate notification shall be issued in the press. Bidders should regularly visit above website and e-portal to keep themselves updated.



OIL INDIA LIMITED
(A Government of India Enterprises)
PO : Duliajan – 786602
Assam (India)

TELEPHONE NO. (91-374) 2808719

FAX NO: (91-374) 2800533

Email: ranjanbarman@oilindia.in ; erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : SDI1058P17 Dt. 10.05.2016

Tender Fee : Rs 1,000.00

Bid Security : Applicable

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Tender Type : Open Tender

Bid Closing / Opening on : As mentioned in the e-portal

Performance Security : Applicable

Integrity Pact : Not Applicable

OIL invites Bids for **Supply, Installation & Commissioning of LED High Mast (Qty. – 02 Nos.)** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents

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.

The tender will be governed by:

- a) For technical support on various matters viz. Online registration of vendors, Resetting of Passwords, submission of online bids etc, vendors should contact OIL's ERP MM Deptt at following: Tel Nos = 0374-2807178, 0374-2807171 , 0374-2807192. Email id = erp_mm@oilindia.in.

- b) OIL's office timings are as below:

	Time (in IST)
Monday – Friday	07.00 AM to 11.00 AM; 12.30 PM to 03.30 PM
Saturday	07.00 AM to 11.00 AM
Sunday and Holidays	Closed

Vendors should contact OIL officials at above timings only.

- c) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.

- d) Technical specifications and Quantity as per **Annexure – 1A**.
- e) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- f) Amendments to the NIT after its issue will be published on OIL's website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.
- g) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- h) Bidder are advised to fill up the Technical bid check list (**Annexure EEE**) and Response sheet (**Annexure FFF**) given in MS excel format in Technical RFx -> External Area -> Tender Documents. The above filled up document to be uploaded in the **Technical RFX** Response.

Special Note:

1.0 Technical and Financial Criteria:

In addition to the general BRC/BEC, following Technical and Financial criteria shall be considered as on the original Bid Closing Date. **(Documentary evidence to be provided along with the bid in Technical RFx -> External Area -> Tender Documents failing which the offer shall be rejected).**

Criteria	Complied / Not Complied.
	Documentary evidence submitted / not submitted
a) Bidder should have experience of successfully executing atleast 1 (one) similar order for Rs. 9.48 Lakhs in preceding 5 (five) years as on B.C. Date. "Similar Order" means – Successfully supply, installation, testing & Commissioning of 20m or 30m Hight Mast lighting system with any type/no. Of flood light fittings (SON/Metal Halide/HPMV/LED) including making of Civil Foundation, all electrical panel etc. With supporting documents (copy of Purchase order and completion certificate)	
b) Annual financial turnover of the firm in any of the preceding 3 financial years should not be less than Rs. 9.48 Lakhs (In Rs).	
c) Net Worth of the firm should be Positive for preceding financial / accounting year.	

Note: Documentary evidence in respect of the above 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 Report (OR) (iii) Consignee Receipted Delivery Challans (OR) (iv) Central Excise Gate Pass / Tax , Invoices issued under relevant rules of Central Excise / VAT (OR) (v) any other documentary evidence that can substantiate the satisfactory execution of each of the purchase orders cited above. For Annual financial turnover enclose the audited Annual Report , Balance Sheet and Profit and Loss Account certified by a chartered accountant.

2.0 Vendors having OIL's User ID & password may pay Tender Fee on-line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).

Vendors who do not have OIL's User ID & password, may generate User ID & password online by the Vendor by using the link for supplier enlistment given in OIL's e-tender portal and then pay Tender Fee on-line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).

Alternatively application showing full address/email address with Tender Fee (Non-refundable) of Rs. 1,000.00 in the form of crossed "Payee Account only "Bank Draft/Bankers' Cheque drawn by Bank and valid for 90 days from the date of issue of the same or in the form of Indian Postal Orders payable to the OIL is to be sent to **DGM-Materials, Oil India Limited, P.O. Duliajan, Assam-786602. Application shall be accepted only upto one week prior to the Bid closing date (or as amended in e-portal).** The envelope containing the application for participation should clearly indicate "REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO ..." for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, USER ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using "Guest Login" provided in the e-Procurement portal. The link to e-Procurement portal has been also provided through OIL's web site www.oil-india.com.

NOTE:

In case of MSE/PSUs/ Govt. Bodies / eligible institutions etc., they shall apply to DGM-Materials, Oil India Limited, P.O. Duliajan, Assam-786602 for waiver of Tender Fee upto one week prior to the Bid closing date (or as amended in e-portal).

3.0 The tender is invited under SINGLE STAGE- COMPOSITE BID SYSTEM. The bidders are required to submit both the "TECHNO-COMMERCIAL UNPRICED BID" and "PRICED BID" through electronic format in the OIL's e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

3.1 Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the Technical RFx Response-> User -> Technical Bid only.

4.0 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 **DGM- Materials, Materials Department, Oil India Limited, Duliajan - 786602, Assam** on or before the Bid Closing Date and Time mentioned in the Tender.

- a) **Original Bid Security**
- b) **Detailed Catalogue (if any)**
- c) **Any other document required to be submitted in original as per tender requirement**

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

5.0 Benefits to Micro & Small Enterprises (MSEs) as per OIL's Public Procurement Policy for Micro and Small Enterprises (MSEs) shall be given. Bidders are requested to go through ANNEXURE – I of MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders for more details. MSE bidders are exempted from submission of Tender Fees and Bid Security/Earnest Money provided they are registered for the items they intend to quote.

6.0 Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the NIT or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in rejection of its offer without seeking any clarifications.

7.0 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.

8.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.

9.0 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-CCC**. However, if any of the **Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (as per Annexure-CCC)** contradict the **Clauses of the tender and / or "General Terms & Conditions"** as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders elsewhere, those in the **BEC / BRC** shall prevail.

10.0 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 toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

11.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.

12.0 If Bank Guarantee is submitted towards 'Bid Security', then bidders have to ensure that the Bank Guarantee issuing bank indicate the name and detailed address (including e-mail) of their higher office from where confirmation towards genuineness of the Bank Guarantee can be obtained.

NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

Yours Faithfully

**Sd-
(R. BARMAN)
SR. MANAGER MATERIALS (IP)
FOR : HEAD-MATERIALS**

Tender No & Date: SDI1058P17 dt. 10.05.2016**BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)**

The following BRC/BEC will govern the evaluation of the bids received against this tender. Bids that do not comply with stipulated BRC/BEC in full will be treated as non responsive and such bids shall prima-facie be rejected. Bid evaluation will be done only for those bids that pass through the “Bid Rejection Criteria” as stipulated in this document.

Other terms and conditions of the enquiry shall be as per General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders. However, if any of the Clauses of the Bid Rejection Criteria / Bid Evaluation Criteria (BRC / BEC) contradict the Clauses of the tender or MM/LOCAL/E-01/2005 elsewhere, those in the BRC / BEC shall prevail.

<u>Criteria</u>	Complied / Not Complied. (Remarks if any)
<p>1.0 BID REJECTION CRITERIA (BRC):</p> <p>The bid shall conform generally to the specifications, terms and conditions given in this document. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.</p> <p>A) COMMERCIAL:</p> <p>i) Validity of the bid shall be minimum 90 days from the Bid Closing Date.</p> <p>ii) Bid security: The bid must be accompanied by Bid Security of Rs 38,000.00 in OIL's prescribed format as Bank Guarantee or a Cashier's cheque or Demand Draft in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender. The Bank Guarantee towards Bid Security shall be valid for 6 months from Bid closing date. (i.e. upto 30.12.2016). Cashier's cheque or Demand Draft shall be valid for minimum 90 days or as per RBI's guidelines, drawn on “Oil India Limited” and payable at Duliajan, Assam</p> <p>Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.</p> <p><u>If bid security in ORIGINAL of above mentioned Amount and Validity is not received or paid online within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.</u></p>	

For exemption for submission of Bid Security, please refer Clause No. 8.16 of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.

The format of Bank Guarantee towards Bid Security (Annexure – VII) has been amended to Annexure – VII (Revised) and bidders should submit Bank Guarantee towards Bid Security as per Annexure – VII (Revised) only.

iii) Bids are invited under “Single Stage Composite Bid System”. Bidders have to submit both the “Techno-commercial Unpriced Bids” and “Priced Bids” through electronic form in the OIL’s e-Tender portal within the bid Closing date and time stipulated in the e-tender. The Techno-commercial Unpriced bid is to be submitted as per scope of works and Technical specification of the tender and the priced bid as per the online Commercial bid format. For details of submission procedure, please refer relevant para of General Terms and Conditions vide MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.

iv) Performance Security:

The successful bidder shall submit Performance Security @ 10% of the order value within 30 days of receipt of the formal purchase order failing which OIL reserves the right to cancel the order and forfeit the Bid Security. Bidders should undertake in their bids to submit Performance Security as stated above.

The Performance Security shall be in any one of the following forms :

(a) A Bank Guarantee in the prescribed OIL’s format valid for 3(three) months beyond the Warranty period indicated in the Purchase Order /contract agreement.

(b) A Cashier's cheque or Demand Draft with validity of minimum 90 days or as per RBI’s guidelines, drawn on “Oil India Limited” and payable at Duliajan, Assam.

The Performance Security for capital nature items like plant and machinery etc. shall be valid for 12 months from the date of commissioning plus 3(three) months or 18 months from the date of shipment/despatch plus 3(three) months whichever concludes earlier. However, for consumables like chemicals, cement, tubular etc. the Performance Security shall be valid for 12 months from the date of shipment/despatch plus 3(three) months.

The validity requirement of Performance Security is assuming despatch within stipulated delivery period and confirmation to all terms and conditions of order. In case of any delay in despatch or non-confirmation to all terms and conditions of order, validity of the Performance Security is to be extended suitably as advised by OIL.

v) 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.

vi) 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.

vii) All the Bids must be Digitally Signed using “Class 3” digital certificate with Organisation’s name (*e-commerce application*) 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. The bid signed using other than “Class 3 with Organisation’s Name” digital certificate, will be rejected.

viii) Price should be maintained in the “online price schedule” only. The price submitted other than the “online price schedule” shall not be considered.

ix). A bid shall be rejected straightway if it does not conform to any one of the following clauses:

(a) Validity of bid shorter than the validity indicated in the Tender.

(b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.

(c) Bid Security with (i) Validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.

(d) Annual Turnover of a bidder lower than the Annual turnover mentioned in the Tender.

2.0 BID EVALUATION CRITERIA (BEC)

The bids conforming to the terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria as well as verification of original of any or all documents/ documentary evidences pertaining to BRC, will be considered for further evaluation as per the Bid Evaluation Criteria given below.

A) TECHNICAL:

i) The bids will be evaluated as per NIT specification.

B) COMMERCIAL:

i). To evaluate the inter-se-ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer.

ii) A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.

iii) 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 toto must be received on or

before the deadline given by the company, failing which the offer will be summarily rejected.	
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NOTE:

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

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TECHNICAL SPECIFICATIONS WITH QUANTITY**Tender No & Date: SDI1058P17 Dt. 10.05.2016**

	Complied / Not Complied. (Remarks if any)
<p>ITEM NO. 10, SUPPLY OF LED HIGH MAST, (QNTY. – 2 NOS.)</p> <p>TECHNICAL DATA SPECIFICATIONS 20 METER HIGH MAST</p> <p>1.HIGH MAST STRUCTURE: The high mast shall be continuously tapered, polygonal cross section and 20 meters high above base plate. The mast shall be fabricated from steel plate welded polygonal construction in two(02) numbers of sections, telescopically jointed giving a continuous tapered profile and presenting good visual appearance.</p> <p>a. Height of Mast (Mtrs) : 20</p> <p>b. Material of Construction. : BSEN 10025:1993</p> <p>c. Thickness of Material:</p> <p style="padding-left: 40px;">i. Top Section. : 3 mm/4 mm</p> <p style="padding-left: 40px;">ii. Bottom Section. : 4 mm/5 mm</p> <p>d. Cross Section of Mast (Number of Sides) : 20 Sided Polygon</p> <p>e. Length of Individual Section:</p> <p style="padding-left: 20px;">i. Top Sec. : 10.350 Mtrs (Axial)</p> <p style="padding-left: 20px;">ii. Bottom Sec. : 10.350 Mtrs</p> <p>f. Base & Top Diametre :</p> <p style="padding-left: 20px;">i. Base Dia. : 460 mm(Approx)</p> <p style="padding-left: 20px;">ii. Top Dia. : 150 mm(Approx)</p> <p>g. Type of Joints : Stress Slip Fit Joints</p> <p>h. Length of Overlap. : 1.5 times the Dia of Insertion</p> <p>I. Metal Protection Treatment : Hot Dip Galvanised as per BS 729 or equivalent GI standard.</p> <p>j. Thickness of Galvanisation. : Minimum thickness shall be 65 Microns.</p> <p>k. Size of Door Opening at Base of Mast. : 1200 mmX 300 mm (approx.)</p> <p>l. Type of Locking on Door Panel. : Close fitting door with Allen Key Locking with suitable reinforcement to Avoid Buckling at Base of Mast.</p> <p>m. Lighting protection finial : GI single spike of Length 1200 mm</p> <p>n. Size of Base Plate.</p> <p style="padding-left: 20px;">i. Diameter. : 670 mm</p> <p style="padding-left: 20px;">ii. Thickness. : 30 mm</p> <p>2.Dynamic Loading As Prevailing At Site:</p> <p>a. Maximum Wind Speed (IS 875 - 1987) : 180 Km/Hr</p> <p>b. Number of Foundation Bolts. : 08 Nos</p> <p>c. PCD of Foundation Bolts. : 590 mm</p> <p>d. Diameter of Foundation Bolts. : M30(32 mm dia)</p> <p>e. Length of Foundation Bolts : 850 mm</p> <p>3. Lantern Carriage: The lantern carriage shall be of steel tubular ring type construction designed to accommodate 8 nos. of 200 W LED luminaires with necessary accessories.Lantern Carriage/Accessories shall be made with best steel in compliance with BS: EN 10025 FE 430 A and shall have guaranteed</p>	

characteristics as per this standard.

- a. Material of Construction. : 50/40 NB ERW Class B- M.S Pipe
- b. Diameter of Lantern Carriage Ring. : 710 mm (ID)
- c. Construction. : 6 Arm Welded
- d. Number of Joints. : 2 Segments
- e. Load Carrying Capacity. : 8 Luminaire , Symmetrical
- 4. Winch:
 - a. Number of Drums Per Winch. : Double Drum.
 - b. Gear Ratio. : 50:1
 - c. Capacity: SWL 750 Kgs.
 - d. Method of Operation. : Both Motor and Manual.
 - e. Lubrication Arrangement. : Self Lubricating in Permanent Oil Bath
 - f. Type of Lubricant. : SAE - 90 / 140.

4.1. Winch assembly, meant for hoisting of lantern carriage, shall be a double winch and shall be fixed in the base of the mast and shall have provision to operate both manually and electrically. The winch shall be suitably designed to handle the total weight of lantern carriage assembly with all fittings and accessories with required factor of safety.

4.2. The average rate of raising and lowering shall be not less than 3 metres per minute. Initial supply of oil for winch shall be arranged by the party.

4.3. The winch shall be of self sustaining and self lubricating type with positive locking arrangement. The rope drum shall be fabricated as per IS: 807 and the wire rope shall be wound/unwound on the winch during movement of lantern carriage.

4.4. Lantern carriage shall be operated with three point (three rope) system for preventing wobbling of the carriage during raising and lowering.

4.5. The material of construction for top pulley block shall be non-corrosive and preferably made of die cast LM-6 aluminum /brass alloy with self lubricating bearing.

4.6. Design of the pulley shall be such that wire rope does not come out of the groove at any time during lowering/raising of the lantern carriage.

4.7. The design shall ensure that the operation of pulley is maintenance free. Pulley should be provided with weather proof cover. Particular care shall be exercised in all aspects of design, manufacture, and testing and installation arrangement of the system to ensure optimum safety under all operating condition to give a minimum 25 years of operating life. Test certificates shall be provided with each winch. Offer should also state clearly the capacity, operating lubricant, speed and recommended lubricant.

5. Stainless Steel Wire Rope:

- a. Grade: AISI 316.
- b. Diameter of SS Rope : 6 mm
- c. Construction of SS Rope : 7 / 19.
- d. Number of SS Ropes : 3 Nos of 6 mm for Lantern Carriage.
: 2 Nos of 6 mm for Double Drum Winch

e. Thimbles & Terminals. : Provided.

f. Breaking Load Capacity. : 2350 Kgs Per SS Wire Rope

6. Trailing Cable:

- a. Type: Flexible Copper 5 Core 4 Sq mm
- b. Material. : EPR Insulated PCP Sheathed
- c. Make : I.S. Approved Brand.
- d. No. of circuits per mast : One

7. Power Tool:

- a. Model. : Integral

b. Capacity(HP) : 2 HP

c. Number of Speeds. : Single Speed.

d. Reversible / Non - Reversible. : Reversible.

e. Input Supply. : 415 Volts / 240 Volts

f. Rate of raising and lowering of the mast shall be not less than 3 metres per minute

g. The drive unit shall be housed at the base of the mast.

h. Make of model: Make- Crompton Greaves/ Kirloskar Ltd./ Siemens/ Bharat Bijlee

8.CONTROL PANEL (FEEDER PILLAR BOX):

A feeder pillar box made of 2mm/14 SWG CRCA sheet metal, self supporting, floor mounted, dust, vermin and weather proof for outdoor use shall be supplied for locally/automatically switching ON/OFF of luminaires. The control panel shall comprise the following:

Incomer- 01 no: 415 V, 63 Amp, 4 pole MCCB.

Make: GE/Siemens/Havell/Telemecanique /Legrand/Indo Asian

Earth leakage Relay with separate core balance current transformer:

Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps.

Make: Merlin Gerlin/Legrand.

Ø Light controller- 01 no: Triple pole power contactor AC3 rating min. 40 A rating for long life

Ø Make: Legrand/Telemecanique/Siemens/GE/Havell/Indo Asian

Ø Triple pole power contactor AC3 rating min. 16 A- 02 nos., rated for motor hoisting and lowering

Ø Make: Legrand/Telemecanique/Siemens/GE/Havell/Indo Asian

Ø Digital Voltmeter & Ammeter, size-96mm X 96mm, Range 0-600V

Ø LED indication lights- 3 nos. for R,Y,B phase indication, make: Binay/Telemecanique

Ø Start/Stop push button for locally switching ON/OFF the luminaires - 1 set.

Ø Separate TBs of suitable sizes for incomer cable, outgoing motor and luminaire cable and control cables shall be used.

Ø NS 4 type fuses carrier and base shall be used for control circuit protection.

Ø Automatic light switch with digital time switch, DIN rail mounted, suitable for astronomical calculations of sunrise and sunset during summer/winter by setting date, time and positions of longitude and latitude, model-Astro Rex-D21 of Legrand, astro-time -switch, 240V AC, 50HZ, Make- Legrand/ Merlin Gerlin

Ø All power and control wiring shall be done with single core, 1100 V grade PVC insulated, IS marked, flexible copper cable. Power cable size shall be as per IS: 8623, control cable 2.5 Sq. mm.

Ø Brought out terminals/spreader bars of tinned copper shall be provided at incomer MCCB for terminating 4x16 Sq. mm PVCA cable. All outgoing connections from the incomer MCCB shall be tapped through suitable rectangular copper bars.

Ø Detachable gland plate and copper brought out terminals for incoming and outgoing cable connection shall be provided. Suitable single compression metallic glands for the luminaire and motor cables shall be provided in the feeder pillar.

Ø Feeder Pillar box is to be painted with by 2 coats of primer followed by epoxy grey paint.

Ø Push button for raising and lowering the mobile part shall operate on "Dead man principle" i.e. action shall cease as soon as the button is released.

Ø The height of foundation for panel shall be min. 600 mm from the ground level. Also, the gland plate of the feeder pillar shall be at a height of minimum 600 mm from foundation level.

Ø Feeder Pillar should be located at min. 5 meters radial distance from the high mast.

Ø GA and Single line diagram of the feeder pillar shall be submitted with the offer.

9. LUMINAIRES:

Technical Specification

LED Flood lighting luminaire 200 W \pm 10% comprises of highly efficient pressure die cast aluminium housing with fins for better heat dissipation as per the following specifications:

- a) Wattage: 200 \pm 10% W
- b) Number of luminaire in 1 High Mast: 8 nos
- c) Voltage :220-240V AC 50 Hz
- d) Driver: Constant Current Driver
- e) Housing : pressure die cast
- f) Diffuser: Toughened glass
- g) THD: < 10%
- h) Adequate heat sink with proper thermal management shall be provided.
- i) Colour rendering temperature: minimum 5000K or more. (White colour)
- j) System Lumen output of the Luminaire shall be as per wattage and lumen equivalent
- k) IP protection Category : IP 65 minimum
- l) Reflector: Optics High Efficiency Powder Coated
- m) Power factor > 0.9
- n) Mounting: Cradle
- o) The driver card shall withstand 440V and shall resume normal working when nominal voltage is applied again
- p) Luminaire efficacy shall not be less than 90%
- q) CRI of the luminaire shall be more than 70%.
- r) Total harmonic distortion (current and voltage) induced into an AC power line by a luminaire shall not exceed 20 percent.
- s) The luminaire on-board circuitry shall include surge protection devices (SPD) to withstand high repetition noise transients as a result of utility line switching, nearby lightning strikes, and other interference.

Special note:

- i. The 2 nos. of High Mast will be installed in a rectangular area of size 220 m x 100 m approx
- ii. Bidders shall submit LM-79-08 & LM-80-08 test report for the offered luminaire, showing all test parameters like driver current, lumen output, efficacy, number of LED, input wattage, IP protection category etc in the report, from NABL certified / authorized Laboratories for the offered model or type of LED luminaire along with the bid.
- iii. Bidders to supply all technical documents for the luminaire and they shall offer design with photometric details of the luminaire.
- iv. Luminaire make & Model: Crompton Greaves, Model LSFO -200-CDL/60 or equivalent Philips / Havells / Bajaj / GE / C&S / HPL/Surya or as approved by OIL Engineer in charge.
- v. Luminaire including the driver shall be guaranteed for Free replacement for 4 years from the date of issue of suitability report/ Commissioning.
- vi. Free replacement guarantee certificate for the 4 year guarantee period is to be supplied from the OEM.

2 nos. 5 core, 6 sq. mm, copper conductor, flexible copper screened, EPR insulated and PVC/PCP sheathed cable, 1100V grade, Make- Nicco/ Incab /Polycab /Finolex/CCI/Universal/KEC (RPG)/ Ankur/Radiant/NECAB shall be used from the mast terminal block to the lantern carriage. Terminal block shall be covered to protect it from the entry of insects and dust particles.

10. EARTHING:

The mast shall be provided with suitable body earthing and lightning protection system. Mast shall have suitable earth boss (terminal) for 30 x 6 GI strap earth connections. The complete earthing system shall comprise the following:

10.1: 50 mm dia, 3 metre Long G.I. Pipe earth electrodes with brick enclosure and RCC/FRP cover – 4 Nos.

10.2: 30 mm X 6 mm G.I. straps for earth connection of the mast at the studs (from studs to earth electrodes)

Out of the four electrodes, 2 nos. electrodes shall be used for lightning protection and 2 nos. electrodes shall be used for earthing of the feeder pillar and luminaires/motor.

11. TOOL BOX:

A tool box of sheet steel containing a set of general and special purpose tools is to be supplied along with high mast for maintenance job.

12. AVIATION OBSTRUCTION WARNING LIGHTS & LIGHTNING ARRESTOR:

12.1 (two) nos. medium intensity LED flasher type aviation obstruction light fitted in a weather- proof box on body unit of Aluminium alloy shall be supplied with each mast system. The cover of the light will be glass with rubber gasket (IP 65 protection). The light fitting shall have integral terminal chamber. LEDs are to be mounted on fire retardant epoxy printed circuit board.

12.2 Light fittings shall be suitable for 240V AC, 50 Hz supply. Luminous intensity of the lamp shall be minimum 90 candela. Unit shall be similar to Baliga luminaire model: AW300. Make- Binay/Bajaj/ Philips/Baliga.

12.3 Lightning protection rod (lightning finial, GI/copper, 1 m length) shall be provided and fixed rigidly on the top of the high mast.

13. FOUNDATION:

13. 1 Foundation of high mast shall be suitable for Zone V considering the Earth Quake resistance measure and party shall have to furnish the design of the foundation of High mast along with the offer. Design shall be approved by OIL before acceptance of offer.

13.2 The bearing capacity of the soil is 10 T/m².

14. SCOPE OF SUPPLY AND INSTALLATION:

Supply of complete High mast Lighting System shall include:

a. Supply of 20 m high mast structure with lantern carriage raising/lowering mechanism

b. Supply of flood light fixtures & lamps of quantity and capacity specified

c. Supply of aviation obstruction warning lights

d. Supply of lightning arrestor for each light mast

e. Supply of power & control cables as required for power distribution from feeder pillar to all light fittings of each mast (Only cable from source/sub-station to light mast feeder pillar shall be supplied and laid by OIL. All other cabling works required for high mast are in the scope of the contractor).

f. Supply of feeder pillar boards

g. Supply of earth electrodes, GI straps

h. Supply of all materials for four earth pits for each mast

Installation and commissioning jobs shall include:

a. Installation, testing & commissioning of the complete light masts with all items and accessories including feeder pillars

b. All cabling works from feeder pillar to mast/power tool/luminaires

c. Making of earth pits as per IS: 3043, laying and connection of earth straps from mast and

feeder pillar to earth pits

15. TECHNICAL NOTES:

15.1 : Feeder pillar drawings (GA drawing, electrical single line diagram, wiring diagram, component layout diagram etc.) shall be scrutinized by OIL. Any modification suggested by OIL shall be incorporated in the design and fresh set of drawings shall be submitted for OIL's approval. Manufacturing of the panel shall be started only after due approval from OIL. Feeder pillar manufactured without OIL's approval shall not be accepted.

15.2 : The following drawings shall be checked and verified by OIL before acceptance of offer.

a. RCC foundation details (suitable for Zone V): 1 set

b. Design calculations of foundation of high mast: 1 set

a. Design calculation of high mast: 1 set

15.3 All components shall be designed to require minimum of maintenance and skilled attention and also to allow routine maintenance to be carried out quickly and easily with a minimum use of tools

15.4 High mast should be designed to have maintenance free life of 25 years against any manufacturing / design defects.

15.5 Every reasonable precaution and provision shall be incorporated in the design of the equipment for the safety and security of the system and of those concerned with its operation and maintenance.

15.6 Heat resisting cable shall be used between lamp holders and circuit connection points.

15.7 The electrical installation job shall comply with all appropriate statutory requirements, rules, regulations, standards and practices.

15.8 All metal work including luminaires, control gear units and luminaire carriage shall be bonded to the earth core of the luminaire supply cable. The earth continuity from luminaire carriage shall be via a single core of the multi-core cable.

15.9 Verticality and straightness measurement shall be carried out and these should be within the limits as specified by manufacturer for wind velocity, earthquake zone mentioned in Tender.

15.10 After completion of installation and commissioning job, supplier/commissioning personnel shall arrange an on-site training to work persons of OIL on electrical and mechanical operation and maintenance of the high mast units. However, no extra charge will be payable for the same.

16. GENERAL CONDITIONS:

16.1. Any deviation from OIL specifications shall be clearly spelled out along with the offer. OIL may or may not accept the deviation and party shall have to make amendments in their offer accordingly.

16.2. Complete supply, erection, testing and commissioning, including civil foundation jobs shall be done by the supplier. Civil jobs of the foundation of the high mast shall be done by the party after approval of foundation drawings by OIL. All the materials for foundation shall be supplied by the party including metallic items like site bolts, anchor plate, steel template etc. Curing time and treatment for foundation shall be as directed by OIL before start of foundation work.

16.3. Party shall make its own arrangement for board and lodging of their working personnel.

16.4. All necessary arrangements for erection of mast are to be made by the party including supply of all safety appliances and tools to workmen. The party will be responsible for their tools, tackles, materials and personnel at site till the high mast units are finally handed over to OIL.

16.5. Persons deployed/ authorized by the party to carry out electrical works should have valid

electrical supervising license and work permit as per CEA Regulations. Copies of the licenses/permits are to be submitted along with the offer.

16.6. The party will take all safety measures during the execution of the work. OIL will not be responsible in any way and shall not be liable to compensate the party in any way for any loss of party's men and material.

16.7. If due to improper execution of the work or due to negligence on the part of the party's workmen, OIL's property is damaged, the party will compensate for such loss.

16.8. The party will submit total 6 (six) sets of operation and maintenance instruction manuals of the mast including electrical items after successful commissioning of the units.

16.9. All the works shall be carried out as per relevant codes, practices rules and regulations. The workmanship shall be of very high standard.

16.10. The work shall be carried out under direct supervision of the party. The party shall submit weekly/monthly progress report of work to the Engineer-in-charge in writing.

17. DOCUMENTS TO BE SUBMITTED WITH THE OFFER:

The following credentials and test certificates shall be submitted with the offer. Offers without these documents are liable to be outright rejected.

Technical documents:

17.1 RCC foundation details (suitable for Zone V): 1 set

17.2 Design calculations of foundation of high mast: 1 set

17.3 Design calculation of high mast: 1 set

17.4 Complete catalogue of high mast with luminaires and aviation light: 1 set

17.5 Detailed dimensional drawing of the complete mast including the dimensional details of base door opening, the distance from the mast flange plate to the bottom of the door, head frame assembly complete with pulley, guides, ropes, covering to stop access of birds or other objects/rains etc.

17.6 General Arrangement (GA) drawing of feeder pillar: 1 set

17.7 Electrical single line diagram, wiring diagram, component layout diagram of Feeder pillar: 1 set

17.8 Illumination level chart: 1 set

17.9 Lux distribution chart in the area.

17.10 Quality Assurance Plan for High mast shaft and accessories: 1 set

17.11 Separate test certificate of the drum winch

17.12 Supplier's Test Certificate for each reel of wire rope

17.13 Test certificate as per the relevant Standards of chemical composition and

17.14 mechanical properties of sheets, flange plates, steel plate, anchor plates

17.15 Test certificate of wind velocity test

17.16 Test certificate of head frame Assembly, mast sections, trailing cable and cable connector as per relevant standards

17.17 Welding and Fabrication detail as per relevant standard Rules, Regulations and practices. Test certificate confirming the minimum thickness of galvanization as 80 micron. The internal and external galvanization shall be as per IS: 2629, 2633 and 4759 Others:

17.18 Valid dealership certificate from the OEM (if the bidder is an authorized dealer)

17.19 Party's/OEM's credentials establishing the fact that they have executed successful supply, erection, testing and commissioning of minimum 1 (one) units of similar type of high mast systems (30 m or 20 m or combination of both) in Central/State Govt/Public Ltd or PSU organizations during last three years as on bid closing date. Supporting documents like Invoice/Payment receipts/Performance certificate/P.O. copies etc shall be submitted along with the offer. The manufacturer of the make offered by the party must have the experience of manufacturing similar type high masts. Credentials from the manufacturer to this effect shall be

<p>submitted with the offer. Offer without any of these documents will be liable for rejection.</p> <p>17.20 Filled-in check list as per Annexure 1</p> <p>18.0 PRE-DESPATCH INSPECTION & TESTING:</p> <p>High mast systems, complete with feeder pillar and light fittings, will be inspected and tested by OIL's representative at the works/premises of supplier/OEM before dispatch. Modification/correction suggested by the OIL inspector for better operation and ease of maintenance of the high mast system shall be carried out by the supplier without any extra cost to OIL. All charges towards pre-despatch inspection and testing shall be included in the offer. However, to and fro charges of OIL's personnel to suppliers /manufacturer's works will be to OIL's account.</p> <p>19.0 PAYMENT TERMS:</p> <p>Supplier shall be paid 70% of the materials value against dispatch documents through bank and balance 30% of the materials value along with 100% taxes and Installation and commissioning charges after successful installation, testing, commissioning and handing over to OIL all high mast units.</p>	
<p>ITEM NO. 20, INSTALLATION & COMMISSIONING, (QNTY. – 1 NO.)</p>	

NOTE:

1. Parties quoting on behalf of OEMs, shall submit Valid authorisation certificate from the OEM.
2. The bidder or their OEM shall have credentials of successful supply, erection, testing and commissioning of minimum 1 (one) units of similar type of high mast systems (30 m or 20 m or combination of both) in Central/State Govt/PSU/Public Ltd organizations during last three years as on bid closing date. Supporting documents like Invoice/Payment receipts/Performance certificate/P.O. copies etc shall be submitted along with the offer.

Bidders should submit their bids (preferably in tabular form) explicitly mentioning compliance / non compliance to all the NIT terms and conditions of NIT.

Technical Bid Checklist**Annexure-EEE**

Tender No.			
Bidder's Name :			
BEC / TENDER REQUIREMENTS		Compliance by Bidder	
SL. NO.		Indicate 'Confirmed' / 'Not Confirmed' / Not applicable	Indicate Corresponding page ref. of unpriced bid or Comments
1	Confirm that validity has been offered as per NIT.		
2	Confirm that Bid Security / Earnest Money has been submitted as per NIT (Wherever Applicable) ?		
3	Confirm that you shall submit Performance security (in the event of placement of order) (Wherever Applicable) ?		
4	Confirm that duly signed Integrity Pact has been submitted as per NIT (Wherever Applicable) ?		
5	Confirm that you have submitted documentary evidence of successfully executing one Purchase order as stipulated in NIT in any of the preceding 5 financial years (*)		
6	Confirm that you have submitted Balance Sheet and Profit and Loss Account of any of the preceding 3 financial years certified by a chartered accountant.		
7	Confirm that the bid has been signed using Class 3 digital certificate with Organisation's Name as per NIT.		
8	Confirm that you have not taken any exception/deviations to the NIT .		

NOTE: Please fill up the greyed cells only.

(*) Purchase Orders along with copies of any of the documents in respect of satisfactory execution of the Purchase Orders should be submitted – (i) Satisfactory Inspection Report (OR) (ii) Satisfactory Supply Completion / Installation Report (OR) (iii) Consignee Receipted Delivery Challans (OR) (iv) Central Excise Gate Pass / Tax , Invoices issued under relevant rules of Central Excise / VAT (OR) (v) any other documentary evidence that can substantiate the satisfactory execution of the purchase order cited above.

Response Sheet**Annexure-FFF**

Tender No.
Bidders Name

Bidders Response Sheet

SI No.	Description	Remarks
1	Place of Despatch	
2	Whether Freight charges have been included in your quoted prices	
3	Whether Insurance charges have been included in your quoted prices	
4	Make of quoted Product	
5	Offered Validity of Bid as per NIT	
6	Bid Security Submitted (if applicable)	
6	Details of Bid Security Submitted to OIL (if applicable)	
	a) Bid Security Amount (In Rs):	
	b) Bid Security Valid upto:	
7	Whether you shall submit Performance Security in the event of placement of order on you (if applicable)	
8	Integrity Pact Submitted (if applicable)	
9	Whether you have submitted documentary evidence of successfully executing one Purchase order as stipulated in NIT in any of the preceding 5 financial years (*)	
10	Whether you have submitted Balance Sheet and Profit and Loss Account of any of the preceding 3 financial years certified by a chartered accountant.	
11	Delivery Period in weeks from placement of order	
12	Complied to Payment terms of NIT (if applicable) otherwise to Standard Payment Terms of OIL or not.	
13	If bidder is MSE whether you have quoted your own product	
14	If Bid security submitted as Bank Guarantee, Name and Full Address of Issuing Bank including Telephone, Fax Nos and Email id of branch manager	

NOTE: Please fill up the greyed cells only.

(*) Purchase Orders along with copies of any of the documents in respect of satisfactory execution of the Purchase Orders should be submitted – (i) Satisfactory Inspection Report (OR) (ii) Satisfactory Supply Completion / Installation Report (OR) (iii) Consignee Receipted Delivery Challans (OR) (iv) Central Excise Gate Pass / Tax , Invoices issued under relevant rules of Central Excise / VAT (OR) (v) any other documentary evidence that can substantiate the satisfactory

**(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETTER HEAD)
(ALL FIELDS ARE MANDATORY)**

Tender No. :.....
Name of Beneficiary :M/s.....
Vendor Code :.....
Address :.....
.....
Phone No. (Land Line) :.....
Mobile No. :.....
E-mail address :.....
Bank Account No. (Minimum
Eleven Digit No.) :.....
Bank Name :.....
Branch :.....
Complete Address of your
Bank :.....
IFSC Code of your Bank
a) RTGS :.....
b) NEFT :.....
PAN :.....
VAT Registration No. :.....
CST Registration No. :.....
Service Tax Registration No. :.....
Provident Fund Registration :.....

I/We confirm and agree that all payments due to me/us from Oil India Limited can be remitted to our above mentioned account directly and we shall not hold Oil India Limited responsible if the amount due from Oil India Limited is remitted to wrong account due to incorrect details furnished by us.

Office Seal

.....
Signature of Vendor

Counter Signed by Banker:
Seal of Bank:

Enclosure: Self attested photocopies of the following documents-

- 1) PAN Card
- 2) VAT Registration Certificate
- 3) Service Tax Registration
- 4) CST Registration
- 5) Provident Registration Certificate
- 6) Cancelled cheque of the bank account mentioned above (in original).
- 7) Bank Statement not older than 15 days on the date of submission.