



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

TELEPHONE NO: (91-374) 2808719

FAX NO: (91-374) 2800533

Email: Bandana.Borah@oilindia.in; erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : SDI8575P19 DT: 11.07.2018

Tender Fee : Rs. 1,000.00

Bid Security Amount : Applicable

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in the e-portal

Bid Opening on : -do-

Performance Security : Applicable

Integrity Pact : Not Applicable

"The items covered by this enquiry 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. However, concessional rate of GST @5% against Essentiality Certificate for invoice value Rs 10 Lakhs and above will be applicable.

In the event of order, OIL will issue Essentiality Certificate (EC), where concessional rate of GST @5% will be applicable. Supplier shall affect dispatch only on receipt of these certificates from OIL, failing which all related liabilities shall be to Supplier's account".

OIL invites Bids for **SUPPLY, INSTALLATION & COMMISSIONING OF LED HIGH MAST –Qty = 04 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 LCB 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) **OIL Bank Details :**

	Bank Details of Beneficiary	
a	Bank Name	STAE BANK OF INDIA
b	Branch Name	Duliajan
c	Branch Address	Duliajan, Dist-Dibrugarh
d	Banker Account No.	10494832599
e	Type of Account	Current Account
f	IFSC Code	SBIN0002053
g	MICR Code	786002302
h	SWIFT Code	SBININBB479
i	Contact No.	9435554859
j	Contact Person Name	Mr. K.L.K.Banik, AGM
k	Fax No.	0374-2802729
l	Email Id	sbi.02053@sbi.co.in

- d) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.
- e) Technical specifications and Quantity as per **Annexure – 1A**.
- f) The prescribed Bid Forms for submission of bids are available in the Technical RFx-> External Area - > Tender Documents.
- g) 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.
- h) 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).

- i) 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 Attachment**. For details please refer “Vendor User Manual” / “NEW INSTRUCTIONS”

Special Notes:

1.0 Vendors having OIL’s User ID & password to 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).

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).

2.0 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.

2.1 Please ensure that Technical Bid / all technical related documents related to the tender are uploaded in the Technical RFx Response-> Technical Attachment only. **For details please refer “NEW INSTRUCTIONS”**. Please refer Annex-BB for price schedule.

3.0 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.

4.0 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. Bidders who are allowed to participate against the tender as MSE's must quote their own products failing which their bids will be rejected.

- 5.0 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.
- 6.0 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.
- 7.0 Bid must be submitted electronically only through OIL's e-procurement portal. Bid submitted in any other form will be rejected.
- 8.0 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.
- 9.0 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.
- 10.0 Please do refer the User Manual provided on the portal on the procedure How to create Response for submitting offer.
- 11.0 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.
- 12.0 Bidders are requested to refer to the enclosed **Annexure – BBB** for the Taxes and Duties clauses under GST regime.

13.0 Delivery/collection Instructions in cases where transportation is in OIL's scope:

(i) the suppliers shall be required to deliver the Sundry consignments of weight less than 3 (Three) Tons at the godown/office/collection point of OIL's authorized transporter in various cities.

(ii) consignments weighing more than 3(Three) Tons shall be collected from the supplier's premises/loading points by OIL's authorized transporter.

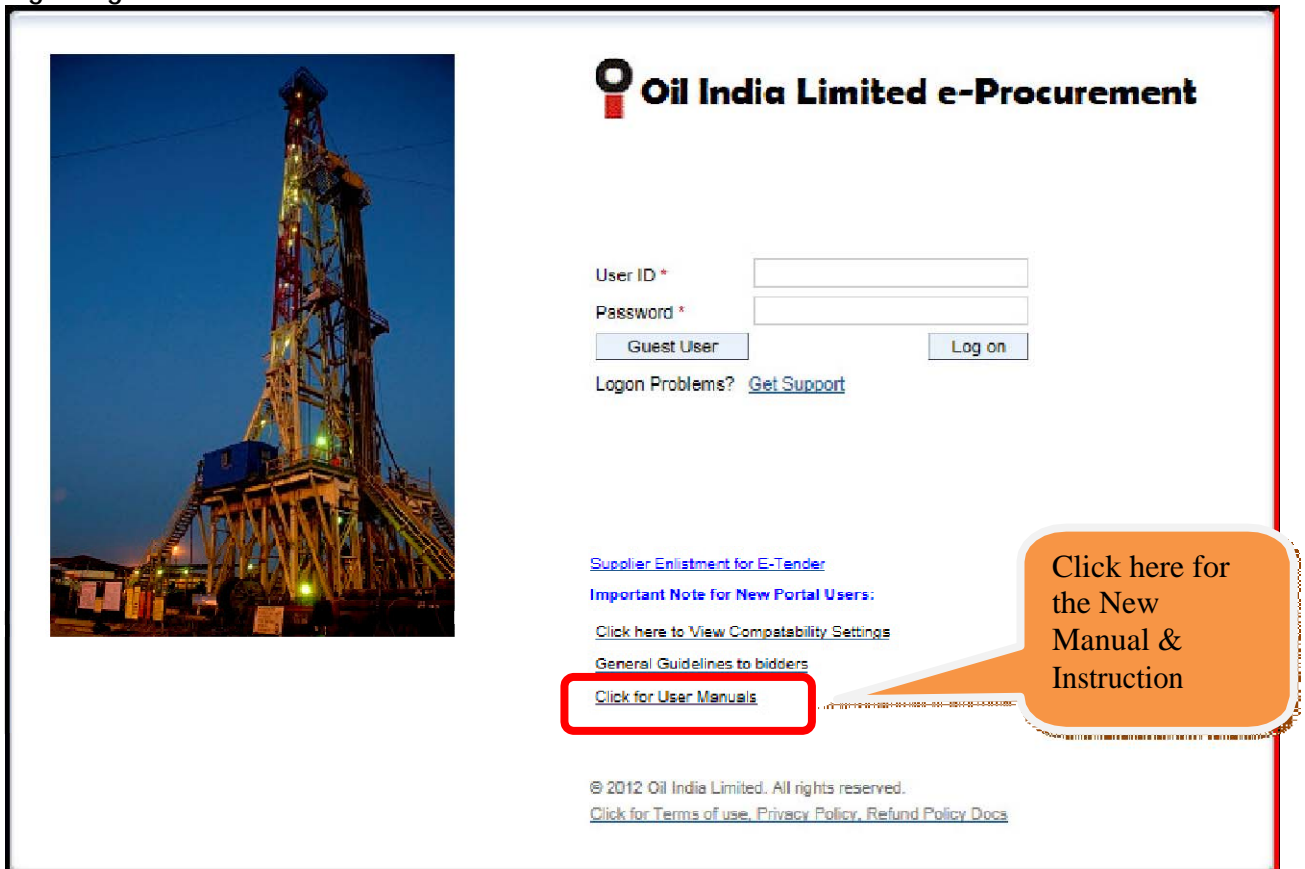
(iii) the names of OIL's current authorized transporters are:

- a) M/s Western Carriers (India) Ltd.
- b) M/s DARCL Logistics Limited

Bidder's are requested to note the above delivery/collection instructions while submitting their offers.

14.0 While submitting the offers bidders are requested to refer to the enclosed **Annexure – BB (Price Bid Format and Evaluation Criteria).**

Please do refer "**NEW INSTRUCTION TO BIDDER FOR SUBMISSION**" for the above two points and also please refer "**New Vendor Manual (effective 12.04.2017)**" available in the login Page of the OIL's E-tender Portal.



Oil India Limited e-Procurement

User ID *

Password *

Logon Problems? [Get Support](#)

[Supplier Enlistment for E-Tender](#)

[Important Note for New Portal Users:](#)

[Click here to View Comptability Settings](#)

[General Guidelines to bidders](#)

[Click for User Manuals](#)

Click here for the New Manual & Instruction

© 2012 Oil India Limited. All rights reserved.

[Click for Terms of use, Privacy Policy, Refund Policy Docs](#)

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-

**(B BORAH)
SPO (IP)
FOR GM-MATERIALS**

Tender No & Date: SDI8575P19 DT: 11.07.2018**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) TECHNICAL:</p> <p>1. . The bidder should have experience of successfully executing similar order (i. e., supplying and commissioning) of at least 2 (two) no. of 20/ 30-Meter-High mast to Central Govt./State Govt./ PSU/ Public Ltd company in the last 5 years as on bid closing date.</p> <p>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 –</p> <p>(i) Satisfactory Inspection Report (OR)</p> <p>(ii) Satisfactory Supply Completion / Installation Report (OR)</p> <p>(iii) Consignee Receipted Delivery Challans (OR)</p> <p>(iv) Central Excise Gate Pass / Tax Invoices issued under relevant rules of Central Excise/VAT/GST (OR)</p> <p>(v) any other documentary evidence that can substantiate the satisfactory execution of each of the purchase orders cited above.</p> <p>Note:</p> <p>a) The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender.</p>	

b) Satisfactory supply/completion/installation report (if submitted) should be issued on client's official letterhead with signature and stamp

B) FINANCIAL

a) Annual Financial Turnover of the bidder during **any of preceding 03 (three) financial / accounting years from the original bid closing date** should be at least **Rs 21.36 Lakhs**.

b) Net Worth of the firm should be Positive for preceding financial / Accounting year. (FY=2017-2018)

Note -For (a) & (b): Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking certifying that 'the balance sheet/Financial Statements for the financial year..... (As the case may be) has actually not been audited so far'.

Notes:

a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-

i) A certificate issued by a practicing Chartered Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in ANNEXURE-J.

OR

ii) Audited Balance Sheet along with Profit & Loss account.

b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.

C) COMMERCIAL:

i) Validity of the bid shall be minimum 90 days from the Bid Closing Date.

ii) Bid security:

The bid must be accompanied by Bid Security of **Rs. 85,500.00** in OIL's prescribed format as Bank Guarantee in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid

Closing 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. **The Bank Guarantee towards Bid Security shall be valid for 6 months from Bid closing date. (i.e 30.04.2018)**

Bid Security may also be paid online on or before the Bid Closing Date and Time mentioned in the Tender.

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.

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

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.

x) DELIVERY : MATERIALS/ITEMS ARE TO BE SUPPLIED BY THE BIDDER WITHIN 04 MONTHS AFTER RECEIPT OF LOA/FIRM ORDER. BIDDER/SUPPLIER HAS TO COMPLETE INSTALLATION AND COMMISSIONING JOBS FOR ALL ITEMS WITHIN 03 MONTHS, ON INTIMATION OF SITE CLEARANCE BY OIL.

NOTE: FOR CLAUSE NOS. C(ii) & C(iv) OF BID SECURITY/EMD AND PBG

The bidders/successful bidders are requested to advise the Bank Guarantee issuing bank to comply with the following and ensure to submit, the receipt of the copy of SFMS message as sent by the issuing bank branch, along with the original bank guarantee in Oil's tender issuing office:

The bank guarantee issued by the bank must be routed through SFMS platform as per following details:

(i) "MT 760 / MT 760 COV for issuance of bank guarantee.

(ii) "MT 760 / MT 767 COV for amendment of bank guarantee

The above message/intimation shall be sent through SFMS by the BG issuing bank branch to Axis Bank, Duliajan Branch, IFS Code - UTIB0001129, Branch Address - AXIS Bank Ltd, Duliajan Branch, Daily Bazar, Jyotinagar, Duliajan, District - Dibrugarh, PIN- 786602

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 bid will be evaluated strictly as per NIT specification, terms & conditions.

B) COMMERCIAL:

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

ii) 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.

NOTE:

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

-----XXXX-----

TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No & Date: SDI8575P19 DT: 11.07.2018

MATERIALS DESCRIPTION	Complied / Not Complied. (Remarks if any)
<p><u>ITEM NO. 10</u></p> <p><u>SUPPLY OF 30 MTR LED HIGH MAST QTY = 02 NOS</u></p> <p>1. MAST:-</p> <p>1.1 The high mast shall be continuously tapered, polygonal cross section and 30 meters high above base plate. The mast shall be fabricated from steel plate welded polygonal construction in suitable number of sections (not less than 3 sections) telescopically jointed giving a continuous tapered profile and presenting aesthetic visual appearance.</p> <p>1.2 The mast shaft shall be made with best steel in compliance with BS: EN 10025 FE 510</p> <p>1.3 Material of the mast sections shall conform to IS: 2062. The mast sections shall be hot dip galvanized to minimum 80 microns both inside and outside conforming to IS: 4759-1984, IS: 2629-1985, IS: 2633-1072.</p> <p>1.4 Mast structure shall be designed to withstand wind velocity of 180km/hr. with 3 sec. gust at a height of 10 m above ground level conforming IS: 875 part III - 1987 and should have wind load factor 1.25 and material factor 1.15.</p> <p>1.5 The base flange shall be provided with gusset and high tensile anchor bolts.</p> <p>1.6 The bottom most section shall accommodate winch electric drive, cable, plug/socket etc. with a proper door opening in order to permit clear access to these components. The door shall be dustproof, vermin proof and weather protected (IP 55) and shall be provided with suitable locking arrangement.</p> <p>1.7 Mast shall be provided with lightning protection</p> <p>1.8 Provision for suitable Earthing shall be provided.</p> <p>2. LANTERN CARRIAGE:-</p> <p>2.1 The lantern carriage shall be of steel tubular ring type construction designed to accommodate 10 nos. of 320-450 Watts LED flood light luminaries along with necessary Driver compartment in a radically symmetrical fashion, sufficient to meet the required lumen output.</p> <p>2.2 Lantern Carriage/Accessories shall be made with best steel in compliance with BS: EN 10025 FE 430 A.</p> <p>2.3 The complete lantern carriage assembly including all nuts and bolts shall have corrosion protection and shall be hot dip galvanized after fabrication. Galvanization shall be as per IS: 4759; minimum thickness of galvanization 80 micron.</p> <p>2.4 The carriage shall have proper arrangement to avoid swing and to prevent damage to mast surface or other installed parts during lowering/raising operation of carriage</p> <p>3. WINCH ASSEMBLY:-</p> <p>3.1 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</p>	

with all fittings and accessories with required factor of safety.

3.2 It shall have Double Gear Double Drum with rope adjustment system gear box so that the drums can be rotated individually and combined.

3.3 Initial supply of oil for winch assembly shall be arranged by the party.

3.4 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.

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

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

3.7 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. The rope termination in the winch shall be such that distortion or twisting is eliminated and at least 8 nos. turns of rope remains on the drum even then the lantern carriage is fully lowered and rested on the rest pads.

3.8 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 30 years of operating life.

3.9 Test certificates shall be provided with each winch. Offer should also state clearly the capacity, operating lubricant, speed and recommended lubricant.

4. WINCH DRIVING POWER UNIT:-

4.1 The winch drive unit shall be squirrel cage reversible induction motor with following characteristic:

a. Supply voltage: 415 V, 3 phase, 50 HZ

b. Insulation: Class F, temperature class limited to class B

c. Class of protection: IP 55, Weather resistant

Make- Crompton Greaves/ Kirloskar/ Siemens/ Bharat Bijlee / Marathon.

4.2 The capacity of the electric motor used in power tool shall be compatible to handle the design load of the complete lantern carriage with luminaries (Min 2.0 HP).

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

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

4.5 For safety reasons and final precision docking of lantern carriage ring, the power unit must have provision to be operated manually by using external crank device/lever without removing the drive motor from the winch unit. Crank device shall be provided with each high mast unit.

5. WIRE ROPE:-

5.1 The wire ropes shall be flexible marine grade and non-corrosive stainless steel grade SS 316.

5.2 A minimum 8 turn of wire rope shall be on the drum when the lantern carriage is fully lowered.

5.3 The stainless steel wire shall be minimum 6 mm diameter, 7x19 constructions which shall have a factor of safety not less than 5 times the safe working load (SFL) of winch.

6. CONTROL PANEL (FEEDER PILLAR BOX):-

A feeder pillar box made of 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 luminaries. The control panel shall comprise the following:

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

GE/Siemens/Havells/Telemecanique /Legrand/Schneider/ABB

6.2 Earth leakage Relay with separate CBCT. Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps. Make: Merlin Gerin/Legrand/ Schneider

6.3 Isolator MCCB 16 Amps, 3 P, as isolator- 01 no. for motor. Make: Legrand/Telemecanique/Siemens/GE/Havells/Schneider/ABB

6.4 Isolator MCCB 63 Amps, 4 P, as isolator- 01 no. for Luminaires. Make: Legrand/Telemecanique/Siemens/GE/Havells/Schneider/ABB

6.5 Light controller- 01 no. Triple pole power contactor AC3 rating min. 63A rating for long life. Make: Legrand/Telemecanique/Siemens/GE/Havells.

6.6 Triple pole power contactor AC3 rating min. 16 A- 02 nos., rated for motor hoisting and lowering. Make: Legrand/Telemecanique/Siemens/GE/Havells/ Schneider

6.7 Analog Voltmeter & Ammeter, range 0-600V, and Current transformer with CT Ratio-50/5 Make- Konzerv /AEI Ltd.

6.8 LED indication lights- 3 nos. for R, Y, B phase indication,

6.9 LED indication lights- 2 nos. for raising and lowering of Mast

6.10 Start/Stop push button for locally switching ON/OFF the luminaries - 1 set.

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

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

6.13 Digital/Analog Time Switch, 240V AC, 50HZ, Make- L&T/Legrand/Indoasian/Merlin Gerin for switching ON/OFF the lanterns according to night/day time.

6.14 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 adequate as per IS: 8623, control cable 2.5 Sq. mm.

6.15 Brought out terminals/spreader bars of tinned copper shall be provided at incomer MCCB for terminating 4x25 Sq. mm PVCA cable. All outgoing connections from the incomer MCCB shall be tapped through suitable rectangular copper bars.

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

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

6.18 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.

6.19 The height of foundation for panel shall be min. 450 mm from the ground level. Also, the gland plate of the feeder pillar shall be at a height of minimum 450 mm from foundation level.

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

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

7. LUMINAIRES:-

LED Flood lighting luminaries rated between 320Watts to 450Watts, having highly efficient pressure die cast aluminium housing with scientifically designed extended fins with open construction for better heat dissipation and to keep LED at safe temperature limits as per the following specifications:

7.1 Electrical Specifications:-

a) Wattage: 320Watts - 450Watts

b) Number of luminaries in one (01) High Mast: 10 nos.

c) Rated Voltage :220-240V AC 50 Hz

d) Power Factor: > 0.90

e) Frequency: 50±5% Hz

Optical Specification

a) Lumen output: shall be greater than or equal to 35000 lumens. LM 79 report from NABL

accredited laboratory shall be submitted along with the offer.

b) Beam Angle: Light engine shall be designed for delivering medium beam distribution with beam angle less than 90deg beam spread.

c) Lumen maintenance: L70

d) LED Life: min. 50000Hrs. LM 80 report of original chip manufacturer justifying L70@50000 Hrs shall be submitted along with the offer.

e) CCT: min 4000K

f) CRI: min 70

Driver Specification

a) Driver: Constant Current Driver

b) Diver Efficiency: min 85%

c) THD: <10%

d) Driver should be placed in Isolated Driver Compartment to enhance the Thermal, Electrical, Safety and Ingress protection.

e) Protection:

- over-voltage protection,
- Short circuit protection,
- Over-load protection
- Over temperature protection for up to 100oC.
- Surge Protection up to 5KV
- EMC/EMI: as per EN 55015

f) Potting: It shall be potted with Silicon for better thermal healing & moisture protection.

7.2 Mechanical Specification:-

a) Housing: pressure die cast Aluminium alloy housing with extended fins for Ultra-cool performance.

b) Finish: Corrosion resistance powder coating

c) Driver Compartment: Isolated Driver compartment made of PDC alloy cover with silicon gaskets enhancing Thermal, Electrical Safety and Ingress protection.

d) Mounting: Cradle mounting with mounting brackets made of CRCA Sheet Steel with corrosion resistance powder coated.

e) IP protection Category: Driver and the optical compartment shall be minimum IP 65 protection.

The LED luminaries shall have minimum of 5 years warranty.

7.3 Cabling:-

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.

8. EARTHING:-

The mast shall be provided with suitable body Earthing and lightning protection system. Mast shall have suitable earth boss (terminal) for 40mm x 6mm GI strap earth connections as per IS 3043. The complete Earthing system shall comprise the following:

8.1 50 mm dia, 3-metre-Long G.I. Pipe earth electrodes with brick enclosure of minimum inner dimensions as 600mm(L)X600mm(B)X500mm(H) (250mm below ground, 250mm above ground) and cover – 4 Nos.

8.2 40 mm X 6 mm G.I. straps for earth connection of the mast at the studs (from studs to earth

<p>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 luminaries/motor.</p> <p>9. AVIATION OBSTRUCTION WARNING LIGHTS & LIGHTNING ARRESTOR: 9.1 02 (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. 9.2 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 luminaries model: AW300. Make- Binay/Bajaj/ Philips/Baliga. 9.3 Lightning protection rod (lightning finial, GI/copper, 1 m length) shall be provided and fixed rigidly on the top of the high mast.</p> <p>10. SCOPE OF SUPPLY & INSTALLATION:</p> <p>Supply of complete High mast Lighting System shall include:</p> <ul style="list-style-type: none"> (a) Supply of 30 m high mast structure with lantern carriage raising/lowering mechanism (b) Supply of LED flood light fixtures 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. (i) Tool box: A toolbox of sheet steel containing a set of general and special purpose tools is to be supplied along with high mast for maintenance job. (j) Mandatory Spares: One no. of LED fixture (320-450Watts) with driver to be supplied as mandatory spare. This is to be of same make/model as supplied with High-mast units. 	
<p><u>ITEM NO. 20</u></p> <p><u>INSTALLATION AND COMMISSIONING OF ITEM NO. 10 – QTY = 01 AU</u></p> <p>Installation and commissioning jobs shall include:</p> <ul style="list-style-type: none"> (a) Civil foundation jobs, 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/luminaries (c) Making of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits <p>FOUNDATION:-</p> <ol style="list-style-type: none"> 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. 2. The bearing capacity of the soil is 10 T/m². 	

ITEM NO. 30**SUPPLY OF 30 MTR LED HIGH MAST QTY = 02 NOS****1. MAST:-**

1.1 The high mast shall be continuously tapered, polygonal cross section and 30 meters high above base plate. The mast shall be fabricated from steel plate welded polygonal construction in suitable number of sections (not less than 3 sections) telescopically jointed giving a continuous tapered profile and presenting aesthetic visual appearance.

1.2 The mast shaft shall be made with best steel in compliance with BS: EN 10025 FE 510

1.3 Material of the mast sections shall conform to IS: 2062. The mast sections shall be hot dip galvanized to minimum 80 microns both inside and outside conforming to IS: 4759-1984, IS: 2629-1985, IS: 2633-1072.

1.4 Mast structure shall be designed to withstand wind velocity of 180km/hr. with 3 sec. gust at a height of 10 m above ground level conforming IS: 875 part III - 1987 and should have wind load factor 1.25 and material factor 1.15.

1.5 The base flange shall be provided with gusset and high tensile anchor bolts.

1.6 The bottom most section shall accommodate winch electric drive, cable, plug/socket etc. with a proper door opening in order to permit clear access to these components. The door shall be dustproof, vermin proof and weather protected (IP 55) and shall be provided with suitable locking arrangement.

1.7 Mast shall be provided with lightning protection

1.8 Provision for suitable Earthing shall be provided.

2. LANTERN CARRIAGE:-

2.1 The lantern carriage shall be of steel tubular ring type construction designed to accommodate 10 nos. of 320-450 Watts LED flood light luminaries along with necessary Driver compartment in a radically symmetrical fashion, sufficient to meet the required lumen output.

2.2 Lantern Carriage/Accessories shall be made with best steel in compliance with BS: EN 10025 FE 430 A.

2.3 The complete lantern carriage assembly including all nuts and bolts shall have corrosion protection and shall be hot dip galvanized after fabrication. Galvanization shall be as per IS: 4759; minimum thickness of galvanization 80 micron.

2.4 The carriage shall have proper arrangement to avoid swing and to prevent damage to mast surface or other installed parts during lowering/raising operation of carriage

3. WINCH ASSEMBLY:-

3.1 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.

3.2 It shall have Double Gear Double Drum with rope adjustment system gear box so that the drums can be rotated individually and combined.

3.3 Initial supply of oil for winch assembly shall be arranged by the party.

3.4 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.

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

3.6 The material of construction for top pulley block shall be non-corrosive and preferably

made of die cast LM-6 aluminium /brass alloy with self-lubricating bearing.

3.7 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. The rope termination in the winch shall be such that distortion or twisting is eliminated and at least 8 nos. turns of rope remains on the drum even then the lantern carriage is fully lowered and rested on the rest pads.

3.8 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 30 years of operating life.

3.9 Test certificates shall be provided with each winch. Offer should also state clearly the capacity, operating lubricant, speed and recommended lubricant.

4. WINCH DRIVING POWER UNIT:-

4.1 The winch drive unit shall be squirrel cage reversible induction motor with following characteristic:

a. Supply voltage: 415 V, 3 phase, 50 HZ

b. Insulation: Class F, temperature class limited to class B

c. Class of protection: IP 55, Weather resistant

Make- Crompton Greaves/ Kirloskar/ Siemens/ Bharat Bijlee / Marathon.

4.2 The capacity of the electric motor used in power tool shall be compatible to handle the design load of the complete lantern carriage with luminaries (Min 2.0 HP).

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

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

4.5 For safety reasons and final precision docking of lantern carriage ring, the power unit must have provision to be operated manually by using external crank device/lever without removing the drive motor from the winch unit. Crank device shall be provided with each high mast unit.

5. WIRE ROPE:-

5.1 The wire ropes shall be flexible marine grade and non-corrosive stainless steel grade SS 316.

5.2 A minimum 8 turn of wire rope shall be on the drum when the lantern carriage is fully lowered.

5.3 The stainless steel wire shall be minimum 6 mm diameter, 7x19 constructions which shall have a factor of safety not less than 5 times the safe working load (SFL) of winch.

6. CONTROL PANEL (FEEDER PILLAR BOX):-

A feeder pillar box made of 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 luminaries. The control panel shall comprise the following:

6.1 Incomer- 01 no., 415 V, 63 Amp, 4 pole MCCB. Make: GE/Siemens/Havells/Telemecanique /Legrand/Schneider/ABB

6.2 Earth leakage Relay with separate CBCT. Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps. Make: Merlin Gerin/Legrand/ Schneider

6.3 Isolator MCCB 16 Amps, 3 P, as isolator- 01 no. for motor. Make: Legrand/Telemecanique/Siemens/GE/Havells/Schneider/ABB

6.4 Isolator MCCB 63 Amps, 4 P, as isolator- 01 no. for Luminaires. Make: Legrand/Telemecanique/Siemens/GE/Havells/Schneider/ABB

6.5 Light controller- 01 no. Triple pole power contactor AC3 rating min. 63A rating for long life. Make: Legrand/Telemecanique/Siemens/GE/Havells.

- 6.6 Triple pole power contactor AC3 rating min. 16 A- 02 nos., rated for motor hoisting and lowering. Make: Legrand/Telemecanique/Siemens/GE/Havells/ Schneider
- 6.7 Analog Voltmeter & Ammeter, range 0-600V, and Current transformer with CT Ratio-50/5 Make- Konzerv /AEI Ltd.
- 6.8 LED indication lights- 3 nos. for R, Y, B phase indication,
- 6.9 LED indication lights- 2 nos. for raising and lowering of Mast
- 6.10 Start/Stop push button for locally switching ON/OFF the luminaries - 1 set.
- 6.11 Separate TBs of suitable sizes for incomer cable, outgoing motor and luminaries cable and control cables shall be used.
- 6.12 NS 4 type fuses carrier and base shall be used for control circuit protection.
- 6.13 Digital/Analog Time Switch, 240V AC, 50HZ, Make- L&T/Legrand/Indoasian/Merlin Gerin for switching ON/OFF the lanterns according to night/day time.
- 6.14 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 adequate as per IS: 8623, control cable 2.5 Sq. mm.
- 6.15 Brought out terminals/spreader bars of tinned copper shall be provided at incomer MCCB for terminating 4x25 Sq. mm PVCA cable. All outgoing connections from the incomer MCCB shall be tapped through suitable rectangular copper bars.
- 6.16 Detachable gland plate and copper brought out terminals for incoming and outgoing cable connection shall be provided. Suitable single compression metallic glands for the luminaries and motor cables shall be provided in the feeder pillar.
- 6.17 Feeder Pillar box is to be painted with by 2 coats of primer followed by epoxy grey paint.
- 6.18 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.
- 6.19 The height of foundation for panel shall be min. 450 mm from the ground level. Also, the gland plate of the feeder pillar shall be at a height of minimum 450 mm from foundation level.
- 6.20 Feeder Pillar should be located at min. 5 meters radial distance from the high mast.
- 6.21 GA and Single line diagram of the feeder pillar shall be submitted with the offer.
7. LUMINAIRES:-

LED Flood lighting luminaries rated between 320Watts to 450Watts, having highly efficient pressure die cast aluminium housing with scientifically designed extended fins with open construction for better heat dissipation and to keep LED at safe temperature limits as per the following specifications:

7.1 Electrical Specifications:-

- Wattage: 320Watts - 450Watts
- Number of luminaries in one (01) High Mast: 10 nos.
- Rated Voltage :220-240V AC 50 Hz
- Power Factor: > 0.90
- Frequency: 50±5% Hz

Optical Specification

- Lumen output: shall be greater than or equal to 35000 lumens. LM 79 report from NABL accredited laboratory shall be submitted along with the offer.
- Beam Angle: Light engine shall be designed for delivering medium beam distribution with beam angle less than 90deg beam spread.
- Lumen maintenance: L70
- LED Life: min. 50000Hrs. LM 80 report of original chip manufacturer justifying L70@50000 Hrs shall be submitted along with the offer.
- CCT: min 4000K
- CRI: min 70

Driver Specification

- a) Driver: Constant Current Driver
- b) Diver Efficiency: min 85%
- c) THD: <10%
- d) Driver should be placed in Isolated Driver Compartment to enhance the Thermal, Electrical, Safety and Ingress protection.
- e) Protection:
 - over-voltage protection,
 - Short circuit protection,
 - Over-load protection
 - Over temperature protection for up to 100oC.
 - Surge Protection up to 5KV
 - EMC/EMI: as per EN 55015
- f) Potting: It shall be potted with Silicon for better thermal healing & moisture protection.

7.2 Mechanical Specification:-

- a) Housing: pressure die cast Aluminium alloy housing with extended fins for Ultra-cool performance.
- b) Finish: Corrosion resistance powder coating
- c) Driver Compartment: Isolated Driver compartment made of PDC alloy cover with silicon gaskets enhancing Thermal, Electrical Safety and Ingress protection.
- d) Mounting: Cradle mounting with mounting brackets made of CRCA Sheet Steel with corrosion resistance powder coated.
- e) IP protection Category: Driver and the optical compartment shall be minimum IP 65 protection.

The LED luminaries shall have minimum of 5 years warranty.

7.3 Cabling:-

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.

8. EARTHING:-

The mast shall be provided with suitable body Earthing and lightning protection system. Mast shall have suitable earth boss (terminal) for 40mm x 6mm GI strap earth connections as per IS 3043. The complete Earthing system shall comprise the following:

8.1 50 mm dia, 3-metre-Long G.I. Pipe earth electrodes with brick enclosure of minimum inner dimensions as 600mm(L)X600mm(B)X500mm(H) (250mm below ground, 250mm above ground) and cover – 4 Nos.

8.2 40 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 luminaries/motor.

9. AVIATION OBSTRUCTION WARNING LIGHTS & LIGHTNING ARRESTOR:

9.1 02 (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

<p>board.</p> <p>9.2 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 luminaries model: AW300. Make- Binay/Bajaj/ Philips/Baliga.</p> <p>9.3 Lightning protection rod (lightning finial, GI/copper, 1 m length) shall be provided and fixed rigidly on the top of the high mast.</p> <p>10. SCOPE OF SUPPLY & INSTALLATION:</p> <p>Supply of complete High mast Lighting System shall include:</p> <ul style="list-style-type: none"> (a) Supply of 30 m high mast structure with lantern carriage raising/lowering mechanism (b) Supply of LED flood light fixtures 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. (i) Tool box: A toolbox of sheet steel containing a set of general and special purpose tools is to be supplied along with high mast for maintenance job. (j) Mandatory Spares: One no. of LED fixture (320-450Watts) with driver to be supplied as mandatory spare. This is to be of same make/model as supplied with High-mast units. 	
<p><u>ITEM NO.40</u></p> <p><u>INSTALLATION AND COMMISSIONING OF ITEM NO. 30. QTY = 01 AU</u></p> <p>Installation and commissioning jobs shall include:</p> <ul style="list-style-type: none"> (a) Civil foundation jobs, 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/luminaries (c) Making of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits. <p>FOUNDATION:-</p> <ol style="list-style-type: none"> 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. 2. The bearing capacity of the soil is 10 T/m². 	

SPECIAL TERMS AND CONDITIONS (FOR ALL THE ITEMS)

1. Materials should be procured from original Engineering manufacturer (OEM)/ authorized dealers only. In case of authorized dealers valid authorized dealership certificate should be submitted along with the offer.
2. The bidder should have experience of successfully executing similar order (i. e., supplying and commissioning) of at least 2 (two) no. of 20/ 30-Meter-High mast to Central Govt./State Govt./ PSU/ Public Ltd

company in the last 5 years as on bid closing date. Documentary evidence for the same in the form of P.O. along with invoice to be submitted along with offer.

3. High Mast Foundation design should as per Zone-V Earthquake categorization, bidder has to certify the same in their offer.

4. Technical catalogue/ leaflet/manuals of the units should be submitted along with the offer otherwise offer will be rejected.

5. The quotations along with the following documents should be submitted to us for technical scrutiny:

- i) Details of RCC foundations, 2 sets suitable for Zone V
- ii) Design calculations of foundation of High Mast (2 sets)
- iii) Design calculations of High Mast
- iv) Catalogue of high mast and luminaries
- v) General arrangement (GA) diagram & circuit diagrams of Feeder Pillar
- vi) Illumination level chart
- vii) Test certificates of steel plate, anchor bolts/plates, wire rope, drum winch, wind velocity test & galvanization thickness
- viii) Quality Assurance Plan of manufacturer for high mast shaft and accessories.
- ix) Radiographic test certificate of High Mast.
- x) In case of LED luminaries with Driver, L79 and L80 report from NABL accredited laboratory.

6. Pre-Dispatch Inspection & Testing: 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. Also Radiographic test of High Mast must be carried out in presence of OIL's representative at main workshop.

All charges towards pre-dispatch 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.

7. Packing should be adequate to avoid transit damage and ingress of moisture.

8. High Mast should be designed to have a maintenance free life of 25 years and should be guaranteed for a period of 25 years against any manufacturing / design defects.

9. Make: Philips / Bajaj /Crompton Greaves/ GE/Nezone

10. Materials are for -Shalmari Fields. It is located centrally from Duliajan and Moran.

11. The party should submit the documents related to back up services, guarantee & supply of spares from OEM or Original equipment supplier.

12. In case of order, 4 (Four) sets of maintenance & operating manuals should be supplied along with the materials.

13. 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.

14. 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.

15. 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. Party shall make its own arrangement for board and lodging of their working personnel. Transportation of men and materials to the site will be party's responsibility.

17. 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.

18. 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. 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.

19. The whole work should be completed within 3 to 4 month from the date of issue of order to the entire satisfaction of Engineer-in-charge of OIL. If the job is not completed in the stipulated time, the contactor shall be penalized at the rate of 0.01% of the unfinished job per month.

Note:

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 :			
		Compliance by Bidder	
SL. NO.	BEC / TENDER REQUIREMENTS	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

ANNEXURE - GGG

**(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.