

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

TELEPHONE NO. (91-374) 2808719

FAX NO: (91-374) 2800533

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

FORWARDING LETTER

Tender No. : SDI3486P20 DT: 03.01.2020
Tender Fee : NIL
Bid Security : Applicable
Bidding Type : SINGLE STAGE TWO BID SYSTEM
Bid Closing on : 12.03.2020 (11.00 HRS IST)
Bid Opening on : 12.03.2020 (14.00 HRS IST)
Performance Security : Applicable
Integrity Pact : Applicable

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. Bidders should regularly visit above website and e-portal to keep themselves updated.

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 concessional rate of GST @5% against Essentiality Certificate for invoice value 1 Lakh and above will be applicable as per Notification No. 3/2017- Integrated/ Central Tax (Rate) dated 28th June, 2017.

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 this certificate 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 = 08 Nos.** through its e-Procurement site under **SINGLE STAGE TWO 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**.

This Tender has been floated for participation of Indigenous bidders only. Hence, only Indigenous bidders are eligible to participate against this tender.

Consortiums/Joint venture entities are not eligible to participate against this tender.

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/ 2807171/ 2807192/2804903.** Email id = erp_mm@oilindia.in; esupport@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.

OIL Bank Details :

	Bank Details of Beneficiary	
a	Bank Name	STATE 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

- 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 – IA**.
- 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) Bidders 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

- a) Bidders who do not have E-tender Login ID and Password should complete their online registration **at least seven (7) days prior to the scheduled bid closing date** and time of the tender. For online registration, Bidder may visit the OIL's E-tender site <https://etender.srm.oilindia.in/irj/portal>
- b) Necessary Login ID & Password will be issued by OIL only after submitting the complete online registration by the Bidder. In the event of late registration/incomplete registration by Bidder, OIL INDIA LIMITED shall not be responsible for late allotment of User ID & Password and request for bid closing date extension on that plea shall not be entertained by Company.
- c) **MSE Units** (Manufacturers/Service Providers only and not their dealers/distributors) who are already registered with District Industry Centers or Khadi & Village Industries Commission or Khadi & Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts & Handloom or any other body specified by Ministry of MSME are **exempted from payment of Bid Security (EMD)** irrespective of their monetary limit, product category and capacity mentioned in their registration, **subject to submission of valid MSE registration certificate issued by appropriate authority.**
- d) For availing benefits under Public Procurement Policy (**Purchase preference**), the interested MSE Bidders must ensure that they are the **manufacturers of the tendered item(s) and registered with the appropriate authority for the said item(s).** Bids without EMD shall be rejected, if the technical offer does not include a valid copy of relevant MSE Certificate issued by appropriate authority specifying the item as per tender. Therefore, it is in the interest of such MSE Vendors to furnish a copy of complete certificate to the concerned tender handling officer of **OIL at least seven (7) days prior to the scheduled Bid Closing Date of the tender**, seeking clarification/confirmation as to whether their MSE certificate is eligible for EMD exemption or not. **Late communication in this regard and request for bid closing date extension on that plea shall not be entertained by Company.**

NOTE:

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

2.0 The tender is invited under SINGLE STAGE-TWO 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 RFX Information > Technical Attachment only. The “TECHNO-COMMERCIAL UNPRICED BID” shall contain all techno-commercial details except the prices. Please note that no price details should be uploaded in Technical RFX Response.

2.2 The “PRICE BID” must contain the price schedule and the bidder’s commercial terms and conditions. For price upload area , please refer “NEW INSTRUCTIONS” Please refer Annex-BB for price schedule.

2.3 Offer not complying with above submission procedure will be rejected as per Bid Rejection Criteria mentioned in Annexure-CCC.

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.

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 **SINGLE STAGE TWO BID SYSTEM** shall be followed for this tender and only the PRICED-BIDS of the bidders whose offers are commercially and technically acceptable shall be opened for further evaluation.

9.0 a) **The Integrity Pact is applicable against this tender. Therefore, please submit the Integrity Pact document duly signed along with your quotation as per BRC. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide Annexure DDD of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be submitted by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.**

b) **The name of the OIL's Independent External Monitors at present are as under:**

1. **SHRI RAJIV MATHUR, IPS (Retd.)**
Former Director, IB, Govt. of India,
E-Mail ID: rajivmathur23@gmail.com
2. **SHRI JAGMOHAN GARG**
Ex-Vigilance Commissioner, CVC
E-mail ID: jagmohan.garg@gmail.com
3. **SHRI RUDHRA GANGADHARAN, IAS (RETD.)**
Ex-Secretary, Ministry of Agriculture
E-mail ID: rudhra.gangadharan@gmail.com

10.0 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.

11.0 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.

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

13.0 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.

14.0 Bidders are requested to refer to the enclosed **Annexure – BBB** for the Taxes and Duties clauses under GST regime.

15.0 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.

16.0 The applicable GST on the Liquidated Damage if any, shall have to be borne by the seller. Accordingly, the Liquidated Damage shall be recovered from the seller along with applicable GST.

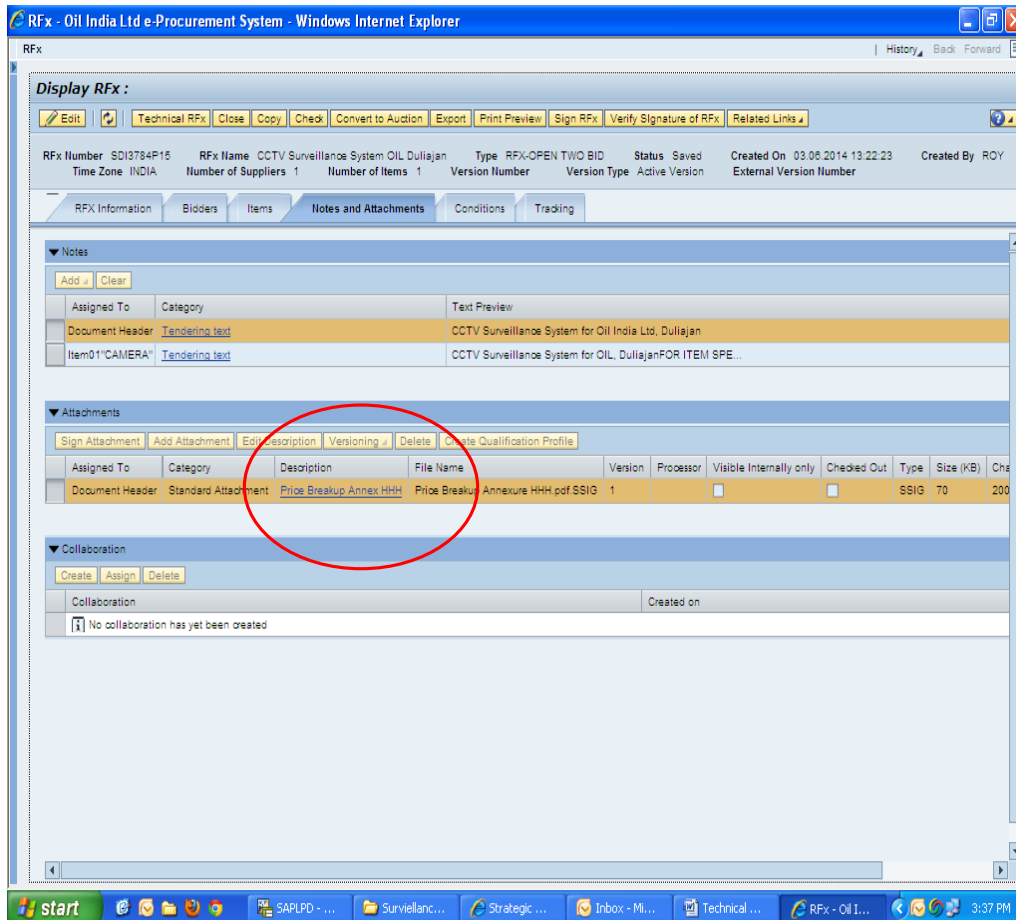
17.0 Bidders should fill-up and submit alongwith their bid an UNDERTAKING towards authenticity of information/documents furnished by them, as per enclosed ANNEXURE-K.

18.0 For convenience of the qualified Bidders and to improve transparency, the rates/costs quoted by bidders against OIL's e-tenders shall be available for online viewing by such Bidders whose price bids are opened by Company. A Bidder can view item-wise rates/ costs of all other such peer bidders against the tender immediately after price bid opening, if the e-tender is floated by Company with PRICE CONDITION. In case the Price-Bid is invited by Company through attachment form under "Notes & Attachment" (i.e., NO PRICE Condition), Bidders must upload their detailed Price-Bid as per the prescribed format under "Notes & Attachment", in addition to filling up the "Total Bid Value" Tab taking into account the cost of all individual line items and other applicable charges like freight, tax, duties, levies etc. Under NO PRICE Condition (i.e., Price Bid in attachment form), the "Total Bid Value" as calculated & quoted by the Bidder shall only be shared amongst the eligible bidders and Company will not assume any responsibility whatsoever towards calculation errors/ omissions therein, if any. Notwithstanding to sharing the "Total Bid Value" or the same is whether filled up by the Bidder or not, Company will evaluate the cost details to ascertain the inter-se-ranking of bidders strictly as per the uploaded attachment and Bid Evaluation Criteria only. Online view of prices as above shall be available to the Bidders only upto seven days from the date of Price-Bid opening of the tender.

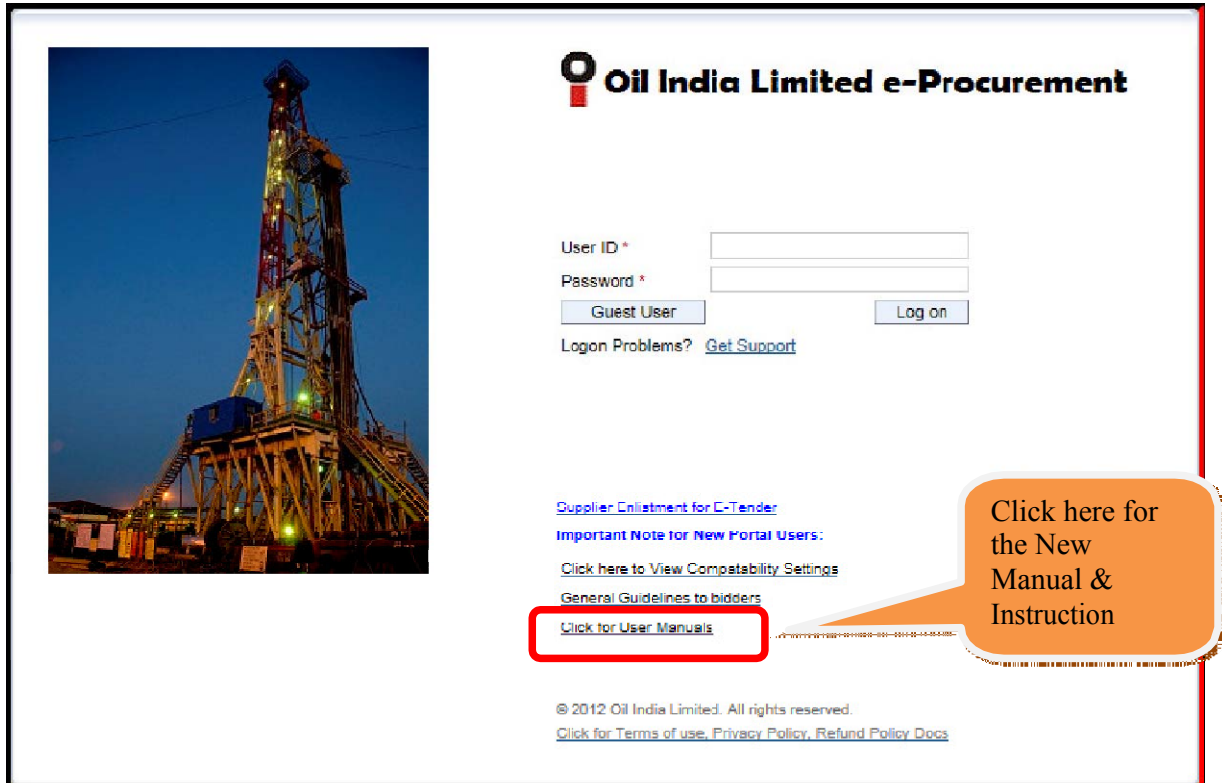
19.0 DISCLAIMER: Rates/Costs shown above are as calculated/quoted by the respective Bidder. Company does not assume any responsibility and shall not be liable for any calculation error or omissions. However, for placement of order/award of contract, Company shall evaluate the cost details to determine the inter-se-ranking of Bidders strictly as per their Price-Bids and Bid Evaluation Criteria of the Tender. OIL INDIA LTD accepts no liability of any nature resulting from mismatch of "Total Bid Value" & price submitted under "Notes & Attachment" by any bidder and no claim whatsoever shall be entertained thereof.

20.0 Price Breakup:

Bidders should submit the price breakup of all the items as per “Annexure HHH” which has been uploaded under “Notes & Attachments” > “Attachments” as shown below. The price breakup “Annexure HHH” should be filled up, signed and uploaded under “Notes & Attachments” > “Attachments” only. **The filled up price breakup of all the items should not be uploaded in Technical Attachment.**



Please do refer "**NEW INSTRUCTION TO BIDDER FOR SUBMISSION**" for the above two points and also please refer "**New Vendor Manual (effective 01.03.2019)**" 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 Compatibility 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 terms and conditions of the NIT.

Yours Faithfully

**Sd-
(A J SARMAH)
CHIEF MANAGER MATERIALS (IP)
FOR : GM-MATERIALS (HoD)**

Tender No &Date:SDI3486P20 DT: 03.01.2020

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>Bidder shall have the experience of successfully executing at least 1(one) similar order for minimum 4(four) nos.of High Mast Lighting Systems in preceding 5(five) years as on the original Bid Closing Date</p> <p>“Similar Order” means "One single order for Supply, installation and commissioning of 20/30 meter tall or higher High Mast Lighting System in any Govt. office / PSU / Public Ltd. Company"</p> <p>Note: Documentary evidence in respect of the above should be submitted in the form of copies of relevant Purchase Order along with copies of any of the following documents in respect of satisfactory execution of each of those Purchase Orders, such as</p> <ul style="list-style-type: none"> (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/GST (OR) (v) Any other documentary evidence that can substantiate the satisfactory execution of each of the purchase orders cited above. 	

Note:

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.

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. 48.71Lakhs**.

b) Net Worth of the firm should be Positive for preceding financial / Accounting year **(FY: 2018-2019)**.

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'.

Note:

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 120 days from the Bid Closing Date.

ii) Bid security:

The bid must be accompanied by Bid Security of **Rs. 1,95,000.00** 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 GM-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 7 months from Bid closing date (i.e. upto 31.10.2020).**

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 Two 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. Any offer not complying with the above shall be rejected straightway.

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 the following form :

A Bank Guarantee in the prescribed OIL’s format valid for 90 days beyond delivery period and applicable warranty/guarantee period (if any).

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.

However, PBG will be applicable only if value of Purchase Order exceeds Rs 5(five) lakhs.

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) **Technical RfX Response folder is meant for Technical bid only. Therefore, No price should be given in Technical RfX Response folder, otherwise the offer will be rejected.**

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

x) 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) In case the Party refuses to sign Integrity Pact.

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

xi) DELIVERY PERIOD:

MAXIMUM DELIVERY PERIOD FOR FOR SUPPLY OF THE MATERIALS: WITHIN 5 MONTHS FROM THE DATE OF PLACEMENT OF ORDER.

MAXIMUM DELIVERY PERIOD FOR INSTALLATION & COMMISSIONING (AFTER SITE CLEARANCE): 03 MONTHS

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 issuing Bank branch must ensure the following:

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 HDFC Bank, Duliajan Branch, IFS Code – HDFC0002118; SWIFT Code - HDFCINBBCAL.

Branch Address: HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, 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. The original Bid Closing Date shall be considered by OIL for evaluation of BRC criteria even in case of any extension of the original Bid Closing Date.

A) TECHNICAL:

1. Bids shall be evaluated strictly as per NIT specifications, terms and conditions.

B) COMMERCIAL:

i) To evaluate the inter-se-ranking of the offers, all Taxes / Levies will be considered as per prevailing Govt. guidelines as applicable on the bid opening date. Bidders may check this with the appropriate authority before submitting their offer.

ii) Priced bids of only those bidders will be opened whose offers are found technically acceptable. The technically acceptable bidders will be informed before opening of the "priced bid".

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

iv) 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 the NIT.

-----XXXX-----

TECHNICAL SPECIFICATIONS WITH QUANTITY**Tender No & Date: SDI3486P20 DT: 03.01.2020**

MATERIALS DESCRIPTION	Complied / Not Complied. (Remarks if any)
ITEM NO. 10 Supply of 30 mtr. High Mast for Loc. HWDH WHS – Qty = 01 No. Detailed specification as per <u>ANNEXURE – I</u> (Attached)	
ITEM NO. 20 Installation & Commissioning of item 10 - Qty = 01 AU Detailed specification as per <u>ANNEXURE – I</u> (Attached)	
ITEM NO. 30 Supply of 20 mtr High Mast for Digboi Central GCS– Qty = 02 Nos. Detailed specification as per <u>ANNEXURE – II</u> (Attached)	
ITEM NO. 40 Installation and Commissioning of item 30- Qty = 01 AU Detailed specification as per <u>ANNEXURE – II</u> (Attached)	
ITEM NO. 50 Supply of 30 mtr. High Mast for OCS#2– Qty = 01 No. Detailed specification as per <u>ANNEXURE – I</u> (Attached)	
ITEM NO. 60 Installation & Commissioning of item 50 - Qty = 01 AU Detailed specification as per <u>ANNEXURE – I</u> (Attached)	

<p>ITEM NO. 70</p> <p>Supply of 30 mtr. High Mast for Nagajan OCS– Qty = 01 No.</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 80</p> <p>Installation & Commissioning of item 60 - Qty = 01 AU</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 90</p> <p>Supply of 30 mtr. High Mast for Ushapur OCS – Qty = 01 No.</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 100</p> <p>Installation & Commissioning of item 90 - Qty = 01 AU</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 110</p> <p>Supply of 30 mtr. High Mast for OCS#6 – Qty = 01 No.</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 120</p> <p>Installation & Commissioning of item 110 - Qty = 01 AU</p> <p>Detailed specification as per <u>ANNEXURE – I</u> (Attached)</p>	
<p>ITEM NO. 130</p> <p>Supply of 20 mtr. High Mast for Kumchai EPS – Qty = 01 No.</p> <p>Detailed specification as per <u>ANNEXURE – II</u> (Attached)</p>	

ITEM NO. 140

Installation & Commissioning of item 130 - Qty = 01 AU

Detailed specification as per ANNEXURE – II (Attached)

SPECIAL TERMS AND CONDITIONS:

1. Bidders other than OEMs must submit **valid authorization certificate** from **OEMs of High Mast and Luminaries (as the case may be)**, for participating in the Bid, **failing which their offers shall be rejected.**
2. The manufacturer of the LED luminaries must have adequate testing facility at their manufacturing plant to prove efficiency of all parameters of the offered LED Flood Light.
3. **Bidder must have to carry out installation & commissioning of the high mast lighting system. Bids only for supply of the materials (without installation & commissioning works) shall be rejected.**
4. The Scope of work comprises of Supply, erection, testing and commissioning of High Mast lighting system complete with LED luminaires for the following locations:
 - i. Loc. HWDH WHS - 1 no. 30 mtrs. High Mast
 - ii. Digboi Central GCS - 2 nos. 20 mtrs. High Mast
 - iii. OCS #2 - 1 no. 30 mtrs. High Mast
 - iv. Nagajan OCS - 1 no. 30 mtrs. High Mast
 - v. Ushapur OCS - 1 no. 30 mtrs. High Mast
 - vi. OCS #6 - 1 no. 30 mtrs. High Mast
 - vii. Kumchai EPS - 1 no. 20 mtrs. High Mast
- 4.1. However, OIL shall have the discretion of changing the location of installation of the High Masts.
5. The materials must be supplied **within 5 months** from the date of placement of order. And, Installation & Commissioning of all supplied materials at respective/designated sites to be completed by the supplier within **3 months** from the date of intimation of site clearance by OIL.
6. Bidders are to fill up and submit alongwith their offer the enclosed annexure Nos. **Annexure-A, Annexure-I** and **Annexure-II**.

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

Annexure-A

Item No.	Description	Quantity	Unit	Compliance (Quoted/Not quoted) (Bidder to fill up)
10	SUPPLY OF 30 MTR. LED HIGH MAST AT LOC. HWDH WELL HEAD SETUP (WHS). Detailed specification as per <u>Annexure-I</u>	1	No.	
20	INSTALLATION AND COMMISSIONING OF ITEM NO. 10. Detailed specification as per <u>Annexure-I</u>	1	AU	
30	SUPPLY OF 20 MTR. LED HIGH MAST AT DIGBOI CENTRAL GCS. Detailed specification as per <u>Annexure-II</u>	2	Nos.	
40	INSTALLATION AND COMMISSIONING OF ITEM NO. 30. 1 AU means I&C of both the units of item no. 30. Bidder should quote for I&C of 2 High Masts. Detailed specification as per <u>Annexure-II</u>	1	AU	
50	SUPPLY OF 30 MTR. LED HIGH MAST AT OCS #2 Detailed specification as per <u>Annexure-I</u>	1	No.	
60	INSTALLATION AND COMMISSIONING OF ITEM NO. 50. Detailed specification as per <u>Annexure-I</u>	1	AU	
70	SUPPLY OF 30 MTR. LED HIGH MAST AT NAGAJAN OCS Detailed specification as per <u>Annexure-I</u>	1	No.	
80	INSTALLATION AND COMMISSIONING OF ITEM NO. 70. Detailed specification as per <u>Annexure-I</u>	1	AU	
90	SUPPLY OF 30 MTR. LED HIGH MAST AT USHAPUR OCS Detailed specification as per <u>Annexure-I</u>	1	No.	
100	INSTALLATION AND COMMISSIONING OF ITEM NO. 90. Detailed specification as per <u>Annexure-I</u>	1	AU	
110	SUPPLY OF 30 MTR. LED HIGH MAST AT OCS#6 Detailed specification as per <u>Annexure-I</u>	1	No.	
120	INSTALLATION AND COMMISSIONING OF ITEM NO. 110. Detailed specification as per <u>Annexure-I</u>	1	AU	
130	SUPPLY OF 20 MTR. LED HIGH MAST AT KUMCHAI EPS Detailed specification as per <u>Annexure-II</u>	1	No.	
140	INSTALLATION AND COMMISSIONING OF ITEM NO. 130. Detailed specification as per <u>Annexure-II</u>	1	AU	

TECHNICAL SPECIFICATIONS OF 30M HIGH MAST LIGHTING SYSTEM COMPLETE WITH LED LUMINAIRES

	Description	Compliance (Bidder to fill up)
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 three number of 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 S355 J0. Minimum plate thickness shall be 5mm (bottom section), 4mm (middle section) and 4mm (top section).	
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 mtrs. 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 (minimum size M30); All bolts shall be hot dip galvanized.	
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.	
2	LANTERN CARRIAGE:	
2.1	The lantern carriage shall be of steel tubular ring type construction designed to accommodate 12 nos. to 24 nos. of LED flood light luminaires (based on ratings of LED lights for illumination as mentioned in Sl. No. 7 (LUMINAIRES), 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.	
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 shall be 80 microns.	
2.4	The carriage shall have proper arrangement to avoid swing and to prevent damage to mast surface or other installed parts during lowering & or raising operation of carriage.	
2.5	Lantern carriage shall be in 2/3 parts	
3	WINCH ASSEMBLY:	
3.1	Winch assembly, meant for hoisting of lantern carriage, shall be a double winch (Double Drum Double Gear) 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 in combination.	
3.3	The average rate of raising and lowering shall be not less than 3 metres per minute.	
3.4	Initial supply of oil for winch assembly shall be arranged by the party.	
3.5	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.	
3.6	Lantern carriage shall be operated with a three point (three ropes) system for preventing wobbling of the carriage during raising and lowering.	
3.7	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.	
3.8	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.	
3.9	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.	

TENDER NO. SDI3486P20 DT: 03.01.2020

	3.10	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 d) Make- Crompton Greaves/ Kirloskar/ Siemens/ Bharat Bijlee / Marathon	
	4.2	The capacity of the electric motor used in power tool shall be capable to handle the design load of the complete lantern carriage with luminaries. Minimum rating of the motor shall be 3.0 HP.	
	4.3	Rate of raising and lowering of the mast shall be not less than 3 metres per minute.	
	4.4	The drive unit shall be housed at the base of the mast.	
	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. The wire rope shall be continuous without any joints or any bolted joint.	
	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):		
	6.1	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 luminaries. The control panel shall comprise the following:	
	6.2	Incomer- 01 no., 415 V, 63 Amp, 4 pole MCCB. Make: GE/ Siemens/ Havell/ Telemecanique / Legrand /Schneider / ABB	
	6.3	Earth-leakage protection shall be provided either through in-built earth leakage module in the MCCB with 300 mA sensitivity Or through separate CBCT & ELR (Make: Merlin Gerlin /Legrand / Schneider/Siemens/ABB) Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps.	
	6.4	01 no. 32 Amps 3 pole MCCB as Isolator- for motor. Make: Legrand/Telemecanique/Siemens /GE/Havell/ Schneider/ABB	
	6.5	01 no. 63 Amps 4 pole MCCB as Isolator - 01 no. for Luminaires. Make: Legrand/Telemecanique/Siemens/GE/Havell/Schneider/ABB	
	6.6	Light controller- 01 no. Triple pole power contactor AC3 rating min. 63A rating for long life. Make: Legrand/Telemecanique/Siemens/GE/Havell/Schneider/ABB.	
	6.7	Triple pole power contactor AC3 rating min. 32 A- 02 nos., rated for motor hoisting and lowering. Make: Legrand/Telemecanique/Siemens/GE/Havell/ Schneider/ABB	
	6.8	Analog Voltmeter & Ammeter, Range 0-600V, and Current transformer with CT Ratio-50/5 Make- Conzerv /AEI Ltd.	
	6.9	LED indication lights- 3 nos. for R,Y,B phase indication, make: Binay/Telemecanique/Schneider	
	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	MCB / NS 4 type fuse carriers and base shall be used for control circuit protection.	
	6.13	Analog Time Switch, 240V AC, 50HZ, Make- L&T/Legrand / Schneider	
	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 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	

TENDER NO. SDI3486P20 DT: 03.01.2020

		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. 750 mm from the ground level. Also, the gland plate of the feeder pillar shall be at a height of minimum 750 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:		
	7.1	Minimum 12 nos. to Maximum 24 nos. of LED flood light luminaires for illumination level as mentioned below.	
	7.2	It is intended to have an average lighting level of 40 lux or above in a circular area of 90Mtr diameter with minimum 12 Nos of LED Floodlight fittings on a 30 Mtr Mast with uniformity (Min./Avg.) greater than 0.4 Maintenance Factor for lighting design to be considered as 0.8. Lighting design from Dialux software shall be submitted along with tender to verify the compliance with lighting requirement. After erecting the high mast lighting system, illumination level will be measured at site. The high mast lighting system will be treated as commissioned only when measured illumination level is found as per requirement.	
	7.3	LED Floodlight 375W +/- 20% of Pressure Die cast Aluminium Alloy Housing with scientifically designed extended heat fins with open construction for facilitating faster heat dissipation and to keep LED at safe temperature limits.	
	7.4	Lumen Efficacy of each flood light unit shall be minimum 100 lumens/Watt, LM 79 report from NABL accredited lab shall be submitted along with the bid.	
	7.5	Light engine for delivering medium beam distribution with less than 90deg beam spread.	
	7.6	Light Engine LED CHIP shall be Nichia, CREE, Lumiled or Osram only. LM 80 report of the original chip manufacturer justifying L70 @ 50000 Hrs shall be submitted along with the bid.	
	7.7	Driver and Optical compartment shall be IP 66 only. Test report of IP 66 protection from NABL accredited lab to be submitted along with the bid.	
	7.8	The fixture should have silicon potted drivers and Aluminium die cast housing powder coated through nano technology to enhance system durability that enables LED life of 50,000 Hrs as per L70 std.	
	7.9	Aluminium clad metal core PCB for better thermal reliability	
	7.10	Isolated Driver Compartment to enhance the Thermal, Electrical, Safety and Ingress protections.	
	7.11	High efficient Driver with safety protections. Features include over voltage protection, short circuit protection, over load protection, and over temperature protection. Potted with Silicon for better thermal healing.	
	7.12	Technical Data Sheet of the fitting along with mounting instruction sheet to be submitted along with tender.	
	7.13	Electrical Specification a) Wattage: 375W +/- 20% b) Number of luminaires in 1 High Mast: minimum 12 nos. c) Rated Voltage : 190V-240V, AC, 50 Hz d) Power Factor: > 0.90 e) Frequency: 50±5% Hz	
	7.14	Optical Specification a) Lumen Efficacy: shall be minimum 100 lumens/Watt. b) CCT: 5700K +/- 300K c) CRI: min 70 d) Lumen maintenance: L70 e) LED Life: min. 50000Hrs. LM 80 report of original chip manufacturer justifying L70@50000 Hrs shall be submitted along with the offer. f) Beam Angle: Light engine shall be designed for delivering medium beam distribution with beam angle less than 90deg beam spread.	
	7.15	Driver Specification a) Driver: Constant Current Driver b) Driver Efficiency: min 87% 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 100 Deg. C, Surge	

TENDER NO. SDI3486P20 DT: 03.01.2020

		<p>f) Protection up to 5KV, EMC/EMI: as per EN 55015</p> <p>g) Potting: It shall be potted with Silicon for better thermal healing & moisture protection.</p> <p>h) IP - 66</p>	
	7.16	<p>Mechanical Specification</p> <p>a) Housing: pressure die cast Aluminium alloy housing with extended fins for Ultra-cool performance.</p> <p>b) Finish: Corrosion resistance powder coating with Nano Technology ensuring durability.</p> <p>c) Driver Compartment: Isolated Driver compartment made of PDC alloy cover with silicon gaskets enhancing Thermal, Electrical Safety and Ingress protection.</p> <p>d) Mounting: Cradle mounting with mounting brackets made of CRCA Sheet Steel with corrosion resistance powder coated.</p>	
	7.17	The LED luminaries shall have minimum of 5 years warranty.	
	7.18	<p>Cabling:</p> <p>i) Power supply to the luminaries mounted lantern carriage from the Mast Terminal Block shall be through 2 nos. 5 core, 6 sq. mm, copper conductor, flexible copper screened, PVC insulated and PVC sheathed cable, 1100V grade, Make- Nicco/ Polycab /Finolex/ CCI/Universal /KEC (RPG)/KEI/Havells/Gemscab.</p> <p>ii) The Mast Terminal block shall consist of 2 nos. 32A, 5pin, IP67 Industrial Connector and Industrial Plug for easy and safe disconnection of the above trailing cable during lowering of the lantern carriage and connection after raising of the lantern carriage. Make: ABB/ Havells/ Siemens/ Legrand / C&S.</p> <p>iii) The cable from the Control panel to the High mast shall terminate at the connector and the Cable to the Lantern Carriage shall terminate at the Plug.</p> <p>iv) The connector shall be mounted with the Mast body with suitable clamp while the plug shall be free moving.</p>	
8	EARTHING:		
	8.1	The mast shall be provided with suitable body earthing and lightning protection system. Mast shall have suitable earth boss (terminal) for 50mm x 6mm GI strap earth connections as per IS 3043. The complete earthing system shall comprise the following:	
	8.2	100 mm dia., 3-metre-Long G.I. Pipe earth electrodes with 4 nos. L-shaped links welded on the body of the electrodes at top end with holes for connecting GI straps. Earth electrode shall be hot dip galvanised after completion of all welding works. Qty. - 4 Nos.	
	8.3	50 mm X 6 mm G.I. straps for earth connection of the mast at the studs (from studs to earth electrodes)	
	8.4	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 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 Baligaluminaries 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.	
10	FOUNDATION:		
	10.1	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.	
	10.2	The bearing capacity of the soil is 10 T/m2.	
11	SCOPE OF SUPPLY AND INSTALLATION:		
	11.1	<p>Supply of complete High mast Lighting System shall include:</p> <p>a) Supply of 30 m high mast structure with lantern carriage raising/lowering mechanism</p> <p>b) Supply of flood light fixtures & lamps of quantity and capacity specified</p> <p>c) Supply of aviation obstruction warning lights</p> <p>d) Supply of lightning arrestor for each light mast</p> <p>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</p>	

TENDER NO. SDI3486P20 DT: 03.01.2020

		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 nos. earth pits for each high mast system.	
	11.2	Installation and commissioning jobs shall include: a) Construction of the Civil Foundation as per Clause 10 above. b) Installation, testing & commissioning of the complete light masts with all items and accessories including feeder pillars c) All cabling works from feeder pillar to mast/power tool/luminaries. d) Making/construction of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits. Earth pit shall be complete with brick enclosure of minimum inner dimensions as 600mm(L)X600mm(B)X500mm(H) (250mm below ground, 250mm above ground) and cover. e) Supplier shall arrange for high mast OEM's authorised supervisor during erection & commissioning of the high mast, cost of which to be included in the price bid. Erection & Commissioning will not be allowed without presence of supervisor duly authorised by high mast OEM.	
12	TECHNICAL NOTES:		
	12.1	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 shall be started only after drawing approval from OIL. Feeder pillar manufactured without OIL's approval shall not be accepted.	
	12.2	All components shall be designed to meet 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.	
	12.3	High mast should be designed to have maintenance free life of 30 years against any manufacturing / design defects.	
	12.4	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.	
	12.5	Heat resisting cable shall be used between lamp holders and circuit connection points	
	12.6	The electrical installation job shall comply with all appropriate statutory requirements, rules, regulations, standards and practices.	
	12.7	All metal work including luminaries, control gear units and luminaires carriage shall be bonded to the earth core of the luminaries supply cable. The earth continuity from luminaires carriage shall be via a single core of the multi-core cable.	
	12.8	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.	
	12.9	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.	
13	DOCUMENTS TO BE SUBMITTED WITH THE OFFER:		
	13.1	One Set of the following credentials and test certificates shall be submitted with the offer. Offers without these technical documents are liable to be rejected. a) RCC foundation details (suitable for Zone V) b) Design calculations of foundation of high mast c) Design calculations of high mast d) Complete catalogue of high mast with luminaries and aviation light. e) 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. f) General Arrangement (GA) drawing of feeder pillar g) Electrical single line diagram of Feeder Pillar h) Illumination level chart i) Supplier's Test Certificate for each reel of wire rope from NABL Accredited laboratory. j) Test certificate of wind velocity test for High Mast	
14	PRE-DESPATCH INSPECTION & TESTING:		
	14.1	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 as per	

TENDER NO. SDI3486P20 DT: 03.01.2020

		mutually agreed QAP between OEM & OIL. 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.	
15	GENERAL CONDITIONS FOR BIDDERS:		
	15.1	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.	
	15.2	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.	
	15.3	Supplier shall make its own arrangement for board and lodging of their working personnel during installation and commissioning.	
	15.4	Transportation of contractor's personnel to the site shall be supplier's responsibility.	
	15.5	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.	
	15.6	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 to OIL before starting of the installation works.	
	15.7	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 during installation and commissioning.	
	15.8	Due to improper execution of the work or due to negligence on the part of the party's workmen if OIL's property is damaged, the party have to compensate for such loss.	
	15.9	Supplier shall submit total 3 (three) sets (along with soft copies) of operation and maintenance instruction manuals of the mast including electrical items after successful commissioning of the units.	
	15.10	All the works shall be carried out as per relevant codes, practices rules and regulations. The workmanship shall be of very high standard. The installation and commissioning works shall be carried out under direct supervision of the supplier.	

TECHNICAL SPECIFICATIONS OF 20M HIGH MAST LIGHTING SYSTEM COMPLETE WITH LED LUMINAIRES

	Description	Compliance (Bidder to fill up)
1	MAST:	
1.1	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 (2) number of 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 S355 J0. Minimum plate thickness shall be 4mm (bottom section) and 3mm (top section).	
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 mtrs. 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 (minimum size M30); All bolts shall be hot dip galvanized.	
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.	
2	LANTERN CARRIAGE:	
2.1	The lantern carriage shall be of steel tubular ring type construction designed to accommodate 08 nos. to 24 nos. of LED flood light luminaries (based on ratings of LED lights for illumination as mentioned in Sl. No. 7 (LUMINAIRES), 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.	
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 shall be 80 microns.	
2.4	The carriage shall have proper arrangement to avoid swing and to prevent damage to mast surface or other installed parts during lowering & or raising operation of carriage.	
2.5	Lantern carriage shall be in 2/3 parts	
3	WINCH ASSEMBLY:	
3.1	Winch assembly, meant for hoisting of lantern carriage, shall be a double winch (Double Drum Double Gear) 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 in combination.	
3.3	The average rate of raising and lowering shall be not less than 3 metres per minute.	
3.4	Initial supply of oil for winch assembly shall be arranged by the party.	
3.5	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.	
3.6	Lantern carriage shall be operated with a three point (three ropes) system for preventing wobbling of the carriage during raising and lowering.	
3.7	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.	
3.8	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.	
3.9	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.	
3.10	Test certificates shall be provided with each winch. Offer should also state clearly the capacity, operating lubricant, speed and recommended lubricant.	

TENDER NO. SDI3486P20 DT: 03.01.2020

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 d) Make- Crompton Greaves/ Kirloskar/ Siemens/ Bharat Bijlee / Marathon	
	4.2	The capacity of the electric motor used in power tool shall be capable to handle the design load of the complete lantern carriage with luminaries. Minimum rating of the motor shall be 3.0 HP.	
	4.3	Rate of raising and lowering of the mast shall be not less than 3 metres per minute.	
	4.4	The drive unit shall be housed at the base of the mast.	
	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. The wire rope shall be continuous without any joints or any bolted joint.	
	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):		
	6.1	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 luminaries. The control panel shall comprise the following:	
	6.2	Incomer- 01 no., 415 V, 63 Amp, 4 pole MCCB. Make: GE/ Siemens/ Havell/ Telemecanique / Legrand /Schneider / ABB	
	6.3	Earth-leakage protection shall be provided either through in-built earth leakage module in the MCCB with 300 mA sensitivity Or through separate CBCT & ELR (Make: Merlin Gerlin /Legrand / Schneider/Siemens/ABB) Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps.	
	6.4	Isolator MCCB 32 Amps, 3 P, as isolator- 01 no. for motor. Make: Legrand/Telemecanique/Siemens /GE/Havell/ Schneider/ABB	
	6.5	Isolator MCCB 32 Amps, 4 P, as isolator- 01 no. for Luminaires. Make: Legrand/Telemecanique/Siemens/GE/Havell/Schneider/ABB	
	6.6	Light controller- 01 no. Triple pole power contactor AC3 rating min. 32A rating for long life. Make: Legrand/Telemecanique/Siemens/GE/Havell/Schneider/ABB.	
	6.7	Triple pole power contactor AC3 rating min. 32 A- 02 nos., rated for motor hoisting and lowering. Make: Legrand/Telemecanique/Siemens/GE/Havell/ Schneider/ABB	
	6.8	Analog Voltmeter & Ammeter, Range 0-600V, and Current transformer with CT Ratio-50/5 Make- Konzerv /AEI Ltd.	
	6.9	LED indication lights- 3 nos. for R,Y,B phase indication, make: Binay/Telemecanique/Schneider	
	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	MCB / NS 4 type fuses carrier and base shall be used for control circuit protection.	
	6.13	Analog Time Switch, 240V AC, 50HZ, Make- L&T/Legrand / Schneider	
	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 4sqmm and 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.	

TENDER NO. SDI3486P20 DT: 03.01.2020

	6.19	The height of foundation for panel shall be min. 750 mm from the ground level. Also, the gland plate of the feeder pillar shall be at a height of minimum 750 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:		
	7.1	Minimum 8 nos. to Maximum 24 nos. of LED flood light luminaires for illumination level as mentioned below.	
	7.2	It is intended to have an average lighting level of 40 lux or above in a circular area of 60Mtr diameter with minimum 8 Nos of LED Floodlight fittings on a 30 Mtr Mast with uniformity (Min./Avg.) greater than 0.4 Maintenance Factor for lighting design to be considered as 0.8. Lighting design from Dialux software shall be submitted along with tender to verify the compliance with lighting requirement. After erecting the high mast lighting system, illumination level will be measured at site. The high mast lighting system will be treated as commissioned only when measured illumination level is found as per requirement.	
	7.3	LED Floodlight 375W+/-20% of Pressure Die cast Aluminium Alloy Housing with scientifically designed extended heat fins with open construction for facilitating faster heat dissipation and to keep LED at safe temperature limits.	
	7.4	Lumen Efficacy of each flood light unit shall be minimum 100 lumens/Watt, LM 79 report from NABL accredited lab shall be submitted along with the bid.	
	7.5	Light engine for delivering medium beam distribution with less than 90deg beam spread.	
	7.6	Light Engine LED CHIP shall be Nichia, CREE, Lumiled or Osram only. LM 80 report of the original chip manufacturer justifying L70 @ 50000 Hrs shall be submitted along with the bid.	
	7.7	Driver and Optical compartment shall be IP 66 only. Test report of IP 66 protection from NABL accredited lab to be submitted along with the bid.	
	7.8	The fixture should have silicon potted drivers and Aluminium die cast housing powder coated through nano technology to enhance system durability that enables LED life of 50,000 Hrs as per L70 std.	
	7.9	Aluminium clad metal core PCB for better thermal reliability	
	7.10	Isolated Driver Compartment to enhance the Thermal, Electrical, Safety and Ingress protections.	
	7.11	High efficient Driver with safety protections. Features include over voltage protection, short circuit protection, over load protection, and over temperature protection. Potted with Silicon for better thermal healing.	
	7.12	Technical Data Sheet of the fitting along with mounting instruction sheet to be submitted along with tender.	
	7.13	Electrical Specification a) Wattage: 375W +/- 20% b) Number of luminaires in 1 High Mast: minimum 12 nos. c) Rated Voltage : 190V-240V, AC, 50 Hz d) Power Factor: > 0.90 e) Frequency: 50±5% Hz	
	7.14	Optical Specification a) Lumen Efficacy: shall be minimum 100 lumens/Watt. b) CCT: 5700K +/- 300K c) CRI: min 70 d) Lumen maintenance: L70 e) LED Life: min. 50000Hrs. LM 80 report of original chip manufacturer justifying L70@50000 Hrs shall be submitted along with the offer. f) Beam Angle: Light engine shall be designed for delivering medium beam distribution with beam angle less than 90deg beam spread.	
	7.15	Driver Specification a) Driver: Constant Current Driver b) Driver Efficiency: min 87% 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 100 Deg. C, Surge Protection up to 5KV, f) EMC/EMI: as per EN 55015 g) Potting: It shall be potted with Silicon for better thermal healing & moisture protection.	

TENDER NO. SDI3486P20 DT: 03.01.2020

	h)	IP - 66	
7.16	Mechanical Specification		
	a)	Housing: pressure die cast Aluminium alloy housing with extended fins for Ultra-cool performance.	
	b)	Finish: Corrosion resistance powder coating with Nano Technology ensuring durability.	
	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.	
7.17	The LED luminaries shall have minimum of 5 years warranty.		
7.18	Cabling:		
	i)	Power supply to the luminaries mounted lantern carriage from the Mast Terminal Block shall be through 2 nos. 5 core, 6 sq. mm, copper conductor, flexible copper screened, PVC insulated and PVC sheathed cable, 1100V grade, Make- Nicco/ Polycab /Finolex/ CCI/Universal /KEC (RPG)/KEI/Havells/Gemscab.	
	ii)	The Mast Terminal block shall consist of 2 nos. 32A, 5pin, IP67 Industrial Connector and Industrial Plug for easy and safe disconnection of the above trailing cable during lowering of the lantern carriage and connection after raising of the lantern carriage. Make: ABB/ Havells/ Siemens/ Legrand / C&S.	
	iii)	The cable from the Control panel to the High mast shall terminate at the connector and the Cable to the Lantern Carriage shall terminate at the Plug.	
	iv)	The connector shall be mounted with the Mast body with suitable clamp while the plug shall be free moving.	
8	EARTHING:		
8.1	The mast shall be provided with suitable body earthing and lightning protection system. Mast shall have suitable earth boss (terminal) for 50mm x 6mm GI strap earth connections as per IS 3043. The complete earthing system shall comprise the following:		
8.2	100 mm dia., 3-metre-Long G.I. Pipe earth electrodes with 4 nos. L-shaped links welded on the body of the electrodes at top end with holes for connecting GI straps. Earth electrode shall be hot dip galvanised after completion of all welding works. Qty. - 4 Nos.		
8.3	50 mm X 6 mm G.I. straps for earth connection of the mast at the studs (from studs to earth electrodes)		
8.4	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 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 Baligaluminaries 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.		
10	FOUNDATION:		
10.1	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.		
10.2	The bearing capacity of the soil is 10 T/m2.		
11	SCOPE OF SUPPLY AND INSTALLATION:		
11.1	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.	

TENDER NO. SDI3486P20 DT: 03.01.2020

	h)	Supply of all materials for four nos. earth pits for each high mast system.	
11.2		<p>Installation and commissioning jobs shall include:</p> <p>a) Construction of the Civil Foundation as per Clause 10 above.</p> <p>b) Installation, testing & commissioning of the complete light masts with all items and accessories including feeder pillars</p> <p>c) All cabling works from feeder pillar to mast/power tool/luminaries.</p> <p>d) Making/construction of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits. Earth pit shall be complete with brick enclosure of minimum inner dimensions as 600mm(L)X600mm(B)X500mm(H) (250mm below ground, 250mm above ground) and cover.</p>	
12	TECHNICAL NOTES:		
12.1		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 shall be started only after drawing approval from OIL. Feeder pillar manufactured without OIL's approval shall not be accepted.	
12.2		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.	
12.3		High mast should be designed to have maintenance free life of 30 years against any manufacturing / design defects.	
12.4		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.	
12.5		Heat resisting cable shall be used between lamp holders and circuit connection points	
12.6		The electrical installation job shall comply with all appropriate statutory requirements, rules, regulations, standards and practices.	
12.7		All metal work including luminaries, control gear units and luminaires carriage shall be bonded to the earth core of the luminaries supply cable. The earth continuity from luminaries carriage shall be via a single core of the multi-core cable.	
12.8		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.	
12.9		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.	
13	DOCUMENTS TO BE SUBMITTED WITH THE OFFER:		
13.1		<p>One Set of the following credentials and test certificates shall be submitted with the offer. Offers without these technical documents are liable to be rejected.</p> <p>a) RCC foundation details (suitable for Zone V)</p> <p>b) Design calculations of foundation of high mast</p> <p>c) Design calculations of high mast</p> <p>d) Complete catalogue of high mast with luminaries and aviation light</p> <p>e) 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.</p> <p>f) General Arrangement (GA) drawing of feeder pillar</p> <p>g) Electrical single line diagram of Feeder Pillar</p> <p>h) Illumination level chart</p> <p>i) L79 and L80 report from NABL accredited laboratory</p> <p>i) Supplier's Test Certificate for each reel of wire rope from NABL Accredited laboratory.</p> <p>j) Test certificate of wind velocity test for High Mast</p>	
14	PRE-DESPATCH INSPECTION & TESTING:		
14.1		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 as per mutually agreed QAP between OEM & OIL. 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.	
15	GENERAL CONDITIONS FOR BIDDERS:		

TENDER NO. SDI3486P20 DT: 03.01.2020

15.1	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.	
15.2	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.	
15.3	Supplier shall make its own arrangement for board and lodging of their working personnel during installation and commissioning.	
15.4	Transportation of contractor's personnel to the site shall be supplier's responsibility.	
15.5	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.	
15.6	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 to OIL before starting of the installation works.	
15.7	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 during installation and commissioning.	
15.8	Due to improper execution of the work or due to negligence on the part of the party's workmen if OIL's property is damaged, the party have to compensate for such loss.	
15.9	Supplier shall submit total 3 (three) sets (along with soft copies) of operation and maintenance instruction manuals of the mast including electrical items after successful commissioning of the units.	
15.10	All the works shall be carried out as per relevant codes, practices rules and regulations. The workmanship shall be of very high standard. The installation and commissioning works shall be carried out under direct supervision of the supplier	

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder).....hereinafter referred to as "The Bidder/Contractor"

Preamble:

The Principal intends to award, under laid down organizational procedures, contract/s for **SDI3486P20**. The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section: 1 -Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

1. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
2. The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.

3. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a Page 2 of 6 substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section: 2 -Commitments of the Bidder/Contractor

(1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

1. The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which h e/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

2. The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

3. The Bidder/Contractor will not commit any offence under the relevant Anticorruption Laws of India; further the Bidder/Contractor will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

4. The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

(2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.

(3) The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 -Disqualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.
2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.
3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.
4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.
5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9- Pact Duration whichever is later**. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings

Section 4 -Compensation for Damages

1.If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.

3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 -Previous transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.

2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section: 6 -Equal treatment of all Bidders/Contractor/Subcontractors

1.The Principal will enter into Pacts on identical terms with all bidders and contractors.

2. The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.

3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section: 7 -Criminal charges against violating Bidders/Contractors/ Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section: 8 -External Independent Monitor/Monitors

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.
3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality.
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to

him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.

7. If the Monitor has reported to the Chairperson of the Board a Substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.

8. The word 'Monitor' would include both singular and plural.

Section:9 -Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section:10 -Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal, i.e. New Delhi. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.

2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

3. If the Contractor is a partnership or a consortium, this agreement must be, signed by all partners or consortium members.

4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

A J SARMAH
CMM (IP)

.....
For the Principal

.....
For the Bidder/Contractor

Witness 1:

Witness 2:

Place. DULIAJAN
Date . 28.01.2020

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.