



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्गापुर, असम
Oil India Limited
(A Government of India Enterprise) Registered Office: Dujapur, Assam

Oil India Limited (RP)
2-A. District Shopping Centre
Saraswati Nagar, Basni
Jodhpur-342005,
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FORWARDING LETTER

Tender No. : SJI8150P16 **Dated :** 10.08.2015

Tender Fee : INR 1,000.00

Bid Security Amount : INR 12,500.00

Bid Bond Validity : Bid Bond should be valid up to 29.07.2016.
(Bid bond format has been changed. Please submit bid bond as per revised format. Refer: MM/RP/GLOBAL/E-01/2005)

Bid Validity : Bid should be valid for 120 days from bid closing date.

Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM

Bid Closing on : As mentioned in the e-portal

Bid Opening on : -do-

Performance Security : Applicable (@10% of the PO value)

Integrity Pact : Not Applicable

OIL, Rajasthan Project invites Bids for **Supply, erection, installation, testing & commissioning of 2 nos. 20 meter tall High Mast Lighting units including 8 Nos. non-integral type 2 x 400 watt Metal Halide fittings (HPIT) on each mast, 2 feeder pillars, 1 LT panel & power supply cables at OIL's Godown-yard at Hamira near Jaisalmer in Rajasthan** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/RP/GLOBAL/E-01/2005 for E-Procurement (Both ICB & LCB Tenders). The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents

The general details of tender can be viewed by opening the RFx [Tender] under RFx and Auctions. The details of items tendered can be **found in the Item Data and details uploaded under Technical RFX.**

The tender will be governed by:

- General Terms & Conditions for e-Procurement as per Booklet No. MM/RP/GLOBAL/E-01/2005 for E-Procurement.
- Technical specifications and Quantity, **BRC/BEC** and any other notes as per **Annexure – IA.**

- c) The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area -> Tender Documents.
- d) In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have already submitted the bids on or before the original B.C. date, shall not be permitted to revise their quotation.
- e) 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).
- f) Bidder are advised to fill up the Technical bid check list (**Annexure EEE**) and Response sheet (**Annexure FFF**) & Bank Details (**Annexure GGG**) as per given format in Technical RFx -> External Area -> Tender Documents. The above filled up document to be uploaded in the **Technical RFx** Response.
- g) All corrigenda, addenda, amendments, time extension, clarifications etc. To the tender will be hoisted on OIL's website (www.oil-india.com) and in the e-portal (<https://etenders.srm.oilindia.in/irj/portal>) only and no separate notification shall be issued in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep themselves updated.

Special Note:

1.0 General Qualification Criteria:

In addition to the general BRC/BEC, following criteria on Bidders' Experience and their financial capabilities shall be considered (**documentary evidence to be provided along with the bid in Technical RFx -> External Area -> Tender Documents**) as on the Bid Closing Date:

- a) Bidder should have experience of successfully executing similar order for at least **INR 3.70 Lakhs** during last 3 years.

Definition of Similar Order: Supply, erection, installation, testing & commissioning of High Mast Lighting system inclusive of Lantern Carriage (for minimum 8 Light Fixture) and Winch Driving Power unit for Lantern Carriage .

- b) Annual financial turnover of the firm in any of the last 3 financial years or current financial year should not be less than **INR 12.33 Lakhs**.

2.0 Application showing full address/email address with Tender Fee (Non-refundable) of INR 1,000.00 in the form of a Demand Draft/Banker's Cheque/ Cashier's Cheque in favour of OIL INDIA LIMITED and payable at Jodhpur is to be submitted to Chief Manager (M&C), Oil India Limited, Rajasthan Project, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan. Application shall be accepted only upto one week prior to Bid Closing date (or as amended in e-portal). The envelope containing the application for participation should clearly indicate "REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO. **SJI8150P16" for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, **USER_ID** and**

initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using "Guest Login" provided in the e-Procurement portal. The link to e-Procurement portal has also been provided through OIL's web site www.oil-india.com.

NOTE:

a) Tender Fee may also be paid online upto one week prior to the bid closing date (or as amended in e-portal).

NOTE: PSUs and SSI units are provided USER_ID and initial PASSWORD Free of Cost (as per govt guidelines), however they have to apply to OIL's designated office to issue USER_ID and initial PASSWORD before the last date of apply.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following document/materials which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date** to **Chief Manager (M&C), Oil India Limited, Rajasthan Project, 2A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan** 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 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.

5.0 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.

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

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

7.1 The following points are deemed as "non-negotiable" and offer shall be rejected straightaway without seeking clarification in case of the following:

- i. **Validity of bid shorter than validity indicated in the tender.**
- ii. **Original Bid Security not received within the stipulated date and time mentioned in the tender.**
- iii. **Bid security with (a) Validity shorter than the validity indicated in tender and/or (b) Bid security amount lesser than the amount indicated in the tender.**

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

9.0 All the Bids must be Digitally Signed using eClass 36 digital certificate (e-commerce application) with organisation name as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India.

10.0 BIDDERS ARE REQUIRED TO QUOTE WITH MINIMUM VALIDITY OF 120 DAYS FROM THE BID CLOSING DATE AS PER NIT REQUIREMENT. BIDS WITH LESSER VALIDITY SHALL BE REJECTED.

11.0 Performance Security: Successful bidder will be required to furnish a Performance Security @10% of the order value. For details about performance security and exemption for submission of the same, please refer Clause No. 10.0 of General Terms and Conditions vide MM/RP/GLOBAL/E-01/2005 for E-Procurement ICB Tenders. The Performance Security must be valid for a period of 12 months from the date of commissioning of the equipment at site or 18 months from the date of dispatch/shipment whichever is earlier. The bidder should confirm submission of the requisite Performance security (in the event of order) in their offer itself, failing which the offer will be rejected.

12.0 You are required to submit original Bid Security at the office of Chief Manager (M&C), Oil India Limited, Rajasthan Project, 02-A, Saraswati Nagar, District Shopping Centre, Basni, Jodhpur-342005, Rajasthan, India on or before the Bid Closing Date and Time of the technical bid. The bid security should be of amount INR 12,500.00 in conformity with OIL's prescribed format as Bank Guarantee enclosed with the booklet MM/RP/GLOBAL/E-01/2005 or a Bank Draft/Cashier cheque in favour of OIL INDIA LIMITED and payable at Jodhpur, Rajasthan (India).

13.0 For details about Bid Security and the eligibility for exemption of bid security, please refer to Clause 9.0 under Section A of General Terms and conditions for Global Tender vide booklet MM/RP/GLOBAL/E-01/2005. Also please refer Annexure-VII vide MM/RP/GLOBAL/E-01/2005 to obtain the format for Bank Guarantee. A scanned copy of the bid security should be uploaded alongwith the offer for our information. If the bid security in ORIGINAL of above mentioned amount is not received within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration. The bidders who are exempted from submitting Bid Security should attach documentary evidence alongwith their technical bid. The Bank Guarantee/LC towards Bid Security shall remain valid for 180 days more than the Bid Validity i.e. 300 days validity is required from the date of Bid opening.

14.0 Benefits to Micro & Small Enterprises (MSEs) as per prevailing Govt guidelines as applicable on B.C date shall be given. MSEs who are interested in availing the benefits will upload with their offer proof of their being MSE registered for the item tendered. The MSE are also required to upload scanned copies of relevant documents indicating details of registration alongwith validity, name of the registering organization and details of the item, ownership etc., failing which, their offer may not be liable for consideration of benefits to MSEs.

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

Yours Faithfully

**Sd-
(KRISHNA MOHAN KUMAR)
DY. MATERIALS MANAGER
FOR : CHIEF MANAGER (M&C)
FOR: EXECUTIVE DIRECTOR (RP)**



ऑयल इंडिया लिमिटेड
(भारत सरकार का उद्योग) पंजीकृत कार्यालय: दुर्लगावाम, असम
Oil India Limited
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ANNEXURE-IA

Tender No. & Date : SJI8150P16 Dated 10.08.2015

Bidding Type : Single Bid (Composite Bid)

Bid Closing on : As mentioned in e-portal

Bid Opening on : As mentioned in e-portal

OIL INDIA LIMITED (Rajasthan Project) invites Indigenous Bids for items detailed below:

TECHNICAL SPECIFICATIONS WITH QUANTITY:

SL. NO. MAT. CODE	MATERIAL DESCRIPTION	QUANTITY	UOM
10 0C000264	SUPPLY OF 20 METER TALL HIGH MAST LIGHTING UNITS INCLUDING 8 NOS. NON-INTEGRAL TYPE 2 X 400 WATT METAL HALIDE FITTINGS (HPIT) ON EACH MAST, 2 FEEDER PILLARS, 1 LT PANEL & POWER SUPPLY CABLES AT OIL& GODOWN-YARD AT HAMIRA NEAR JAISALMER IN RAJASTHAN.	2	NO
20	ERECTION, INSTALLATION, TESTING & COMMISSIONING OF HIGH MAST LIGHTING UNITS UNDER SL. NO. 10 ABOVE	1	AU

A. ITEM DESCRIPTION :

Supply, erection, installation, testing & commissioning of 2 nos. 20 meter tall High Mast Lighting units including 8 Nos. non-integral type 2 x 400 watt(HPIT) Metal Halide fittings on each mast (total 16 Nos.), 2 feeder pillars, 1 LT panel & power supply cables.

TECHNICAL SPECIFICATIONS OF 20 MTRS HIGH MAST LIGHTING UNIT

1.0 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 suitable number of sections (not less than 2) telescopically jointed giving a continuous tapered profile and presenting good visual appearance.

The mast shaft shall be made with best steel in compliance with BS: EN 10025 FE 510 and shall have guaranteed characteristics conforming to this standard.

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

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

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

1.5 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.

1.6 Mast shall be provided with aviation light & lightening protection protection system complete.

1.7 Masts, Lightening arrestors and the electrical equipments shall be suitably earthed. Bottom section of the mast shall have suitable studs for earth connection.

2.0 LANTERN CARRIAGE

2.1 The lantern carriage on each mast shall be of steel tubular ring type construction designed to accommodate 8 Nos. of HPIT non-integral type flood light luminaires with necessary C.G. Box in a radially symmetric fashion.

2.2 Lantern Carriage / Accessories shall be made with best steel in compliance with BS: EN 10025 FE 430 A and shall have guaranteed characteristics as per this standard.

2.3 The complete lantern carriage assembly shall be hot dip galvanized after fabrication. Galvanization shall be as per IS: 4759; minimum thickness of galvanization 80 micron.

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

2.5 All hardware used shall have necessary corrosion protection.

3.0 WINCH ASSEMBLY / POWER TOOL :

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

3.2 The average rate of raising and lowering shall be not less than 3 meters per minute. Supply of oil for winch during installation & commissioning shall be arranged by the Bidder.

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

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

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

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

3.7 The design shall ensure that the operation of pulley is maintenance free. Pulley should be provided with weather proof cover. Particular care shall be exercised in all aspects of design, manufacture, and testing and installation arrangement of the system to ensure optimum safety under all operating condition to give a minimum 25 years of operating life.

Note:

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

4.0 WINCH DRIVING POWER UNIT:

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

- a) Supply voltage: 415 V, 3 phase, 50 HZ
- b) Insulation: Class F, temperature class limited to class B
- c) Class of protection: IP 55, Weather resistant

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

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

4.3 Rate of raising and lowering of the mast shall be not less than 3 meters 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.

5.0 WIRE ROPE:

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

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

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

6.0 CONTROL PANEL (FEEDER PILLARS):

A feeder pillar 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:

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

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

6.3 Isolator MCCB 40 Amps, 4 P, as isolator- 02 nos., one each for motor starter and luminaires
Make: Legrand / Telemecanique / Siemens / GE / Havell

6.4 Light controller- 01 no. four pole power contactor AC3 rating min. 40 A rating for long life
Make: Legrand / Telemecanique / Siemens / GE / Havells

6.5 Thripole power contactor AC3 rating min. 16 A- 02 nos., rated for motor hoisting and lowering
Make: Legrand / Telemecanique / Siemens / GE / Havell

6.6 Digital Voltmeter & Ammeter, size-96mm X 96mm, Range 0-600V, Current transformer with CT Ratio-50 / 5 Make- Konzerv / AEI Ltd.

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

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

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

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

6.11 For each mast, the 8 Nos. light fixtures shall be so connected that load-wise it is equally distributed among the 3 phases of power supply.

6.12 Photo sensor with switch / relay should be configured in the contactor control circuit for auto switching (ON / OFF) of light fixtures in the evening & in the morning.

6.13 Power supply from the LT panel / main distribution board at DG house to each mast shall be done by laying underground suitable sized (3.5x16 sq.mm) 3-phase, 4 wire PVC insulated armored aluminum cable approx 200 meters.

6.14 All 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 brought out terminals for incoming and outgoing cable connection shall be provided. Suitable single compression metallic glands for the luminaries and motor cables shall be provided in the feeder pillar.

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

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

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

6.20 Feeder Pillar should be located at a distance near the base suitably for easy maintenance of LANTERN CARRIAGE when it is brought down.

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

7.0 LT panel / Main Distribution Panel :

LT panel / Main Distribution Panel made of 2mm / 14 SWG CRCA sheet metal, self supporting, floor mounted, dust, vermin and weather proof for outdoor use shall be supplied, installed, tested and commissioned at DG house.

The control panel shall comprise the following:

7.1 Incomer- 01 no., 415 V, 100 Amp, 4 pole MCCB. Make: GE / Siemens / Havell / Telemecanique / Legrand

7.2 Bus-bar : 150 Amps TPN Aluminium bus bars of required length with heat shrinkable insulation sleeves.

7.3 Outgoing : 6 Nos. 40 A TPN MCB

7.4 Earth leakage Relay with separate core balance current transformer. Sensitivity: 30 mA to 3A, Time delay: 0 - 5 sec., current and time setting adjustable in steps. Make: Merlin Gerlin / Legrand.

8.0 LUMINAIRES:

Eight nos. non-integral type, double flood light luminaries with IP 65 protection, 2 x 400 watt Metal Halide fittings (HPIT), and external control gear box with all accessories for each mast shall be used. Proper sized single compression cable glands (Nickel plated SS / brass material) shall be used for glanding of all cables at both ends. Cast aluminum alloy control gear box shall be complete with electro-magnetic ballast, igniter, PF correction capacitor and individual HRC fuses.

Make of Luminaries shall be restricted to: PHILIPS / CROMPTON / GE / HAVELLS

2 nos. 4 core, 6 sq. mm, copper conductor, flexible copper screened, EPR insulated and PVC / PCP sheathed cable, 1100V grade, Make- Nicco / Cords / Incab / Polycab / Finolex / Havells, shall be used from the mast terminal block to the lantern carriage. Terminal block shall be covered to protect it from the entry of insects and dust particles.

9.0 EARTHING:

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

9.1 50 mm dia, 3 meter Long G.I. Pipe earth electrodes with brick enclosure and cover . 4 Nos.

9.2 30 mm X 6 mm G.I. straps for earth connection of the mast at the studs (from studs to earth electrodes)

9.3 Out of the four electrodes for each mast, 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.

10.0 AVIATION OBSTRUCTION WARNING LIGHTS & LIGHTNING ARRESTOR:

10.1 02 (two) nos. medium intensity LED flasher type aviation obstruction light fitted in a weather- proof box on body unit of Aluminum 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.

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

10.3 Lightning protection rod / Lightning arrestor (lightning finial, GI / copper, 1 m length) shall be provided and fixed rigidly on the top of the high mast. Connection shall be made through to the LA earth pit.

11.0 FOUNDATION:

11.1 Foundation of high mast shall be suitable for Zone II considering the Earth Quake resistance measure and Bidder 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.

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

12.0 SCOPE OF SUPPLY AND INSTALLATION:

Supply of complete High mast Lighting System shall include:

- a) Supply of 2 nos. 20 m high mast structure with lantern carriage raising / lowering mechanism
- b) Supply of flood light fixtures & lamps of quantity and capacity as specified
- c) Supply of aviation obstruction warning lights as specified

- d) Supply of lightning arrestor for each light mast
- e) Supply of power & control cables as required for power distribution from LT panel / main distribution board to feeder pillar, feeder pillars to all light fittings of each mast.
- f) All other cabling works (including laying underground) required for high mast are in the scope of the contractor).
- g) Supply of feeder pillars (2 nos.), LT panel / main distribution board at DG house (1 No.)
- h) Supply of earth electrodes, GI straps
- i) Supply of all materials for a total of ten earth pits.

Installation and commissioning jobs shall include:

- (a) Installation, testing & commissioning of the complete light masts including feeder pillars & LT panel / main distribution board
- (b) All cabling works from LT panel / main distribution board to feeder pillars, feeder pillars to mast / power tool / luminaries
- (c) Making of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits

13. TECHNICAL NOTES:

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

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

- a) RCC foundation details (suitable for Zone II): 1 set
- b) Design calculations of foundation of high mast : 1 set
- c) Design calculation of high mast: 1 set

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

13.4 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.

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

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

13.7 All metal work including luminaries, control gear units and luminaries 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.

13.8 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.

13.9 After completion of installation and commissioning job, successful Bidder / 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.

14. GENERAL CONDITIONS:

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

14.2 High mast, feeder pillar and accessories with light fitting will be inspected by OIL's Engineer at the works / premises of successful Bidder before dispatch. Modification / correction suggested by the OIL inspector for better operation and ease of maintenance of the high mast system shall be carried out by the successful Bidder without any extra cost to OIL. Cost for OIL's engineer's visit shall be on OIL's account.

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

14.4 Bidder shall make its own arrangement for board and lodging of their working personnel.

14.5 Transportation of men and materials to the site will be Bidder's responsibility.

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

14.7 Persons deployed / authorized by the Bidder 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 on receipt of order.

14.8 The Bidder should submit detailed schedule of program of work within 15 days from the award of order.

14.9 The Bidder 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 Bidder in any way for any loss of Bidder's men and material.

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

14.11 The Bidder will submit total 03 (three) sets of operation and maintenance instruction manuals of the mast including electrical items after successful commissioning of the units.

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

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

15. DOCUMENTS TO BE SUBMITTED WITH THE OFFER:

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

A] Technical documents:

15.1 RCC foundation details (suitable for Zone II) : 1 set

15.2 Design calculations of foundation of high mast : 1 set

15.3 Design calculation of high mast: 1 set

- 15.4 Complete catalogue of high mast with luminaries and aviation light: 1 set
- 15.5 Detailed dimensional drawing of the complete mast including the dimensional details of base door opening, the distance from the mast flange plate to the bottom of the door, head frame assembly complete with pulley, guides, ropes, covering to stop access of birds or other objects / rains etc.
- 15.6 General Arrangement (GA) drawing of feeder pillar: 1 set
- 15.7 Electrical single line diagram, wiring diagram, component layout diagram of Feeder Pillar : 1 set
- 15.8 Illumination level chart: 1 set
- 15.9 Quality Assurance Plan for High mast shaft and accessories: 1 set
- 15.10 Separate test certificate of the drum winch
- 15.11 Successful Bidder's Test Certificate for each reel of wire rope
- 15.12 Test certificate as per the relevant Standards of chemical composition and mechanical properties of sheets, flange plates, steel plate, anchor plates
- 15.13 Test certificate of wind velocity test
- 15.14 Test certificate of head frame Assembly, mast sections, trailing cable and cable connector as per relevant standards
- 15.15 Welding and Fabrication detail as per relevant standard Rules, Regulations and practices
- 15.16 Test certificate confirming the minimum thickness of galvanization as 80 micron. The internal and external galvanization shall be as per IS: 2629, 2633 and 4759

B : Others:

Bidder's credentials establishing the fact that

- ~ Valid dealership certificate from the OEM (if the bidder is an authorized dealer)
 - ~ they have executed successful supply, erection, testing and commissioning of minimum 4 (four) units of similar type of high mast systems (30 m or 20 m or combination of both) in Central / State Govt. or PSU organizations during last 3 years as on bid closing date.
 - ~ Performance certificate of satisfactory completion of jobs and trouble free operation of the high mast offered from those organizations shall be submitted.
 - ~ The manufacturer of the make offered by the Bidder must have the experience of manufacturing similar type high masts. Credentials from the manufacturer to this effect shall be submitted with the offer.
 - ~ Filled-in check list as per Annexure -I
- Offer without any of these documents will be liable for rejection.

Installation and commissioning jobs shall include:

- (a) Installation, testing & commissioning of the complete light masts including feeder pillars as per offered design.
- (b) LT panel / Main Distribution Board at DG house.
- (c) All cabling works from LT panel / Main Distribution Board at DG house to feeder pillars & from feeder pillars to mast / power tool / luminaries
- (d) Making of earth pits as per IS: 3043, laying and connection of earth straps from mast and feeder pillar to earth pits

B. Tender Special NOTES:

1.0 Bidder shall submit all documents with their bid as per Para 15.0 (Documents to be Submitted with the Offer).

2.0 High Mast units shall be installed and commissioned by the successful Bidder at Oil Godown-yard at Hamira near Jaisalmer in the district of Jaisalmer, Rajasthan.

Site conditions :

Ambient temperature (max.) : 50 degree Celsius
 Ambient temperature (min.) : 5 degree Celsius
 Max. relative humidity at 50 degree Celsius : 50 %

Max. relative humidity at 5 degree Celsius : 05 %
Altitude : 300 meters above sea level
Average annual rainfall : 35 centimeters

3.0 Bidder shall quote items supply charges & commissioning charges separately. All necessary manpower, tools and tackles, instruments etc. required for commissioning shall be in the scope of the successful Bidder.

4.0 Offered high mast units with all accessories must be new and in unused condition. No reconstructed / rebuilt mast units / accessories will be acceptable.

5.0 Components used in the mast and accessories shall be of reputed make (as given in the detailed description) and easily available. Bidder shall submit Bill of Materials (including any additional item to the item list given in the detailed description, if considered essential). Bidder shall also supply all commissioning spares essential for installation and commissioning of the high mast units and feeder pillar panels at the site of installation mentioned.

6.0 Bidder shall mention any deviations or other items / points not indicated / included in the specifications but deemed necessary for design, installation and commissioning, efficient control and operation of the high mast units. However, proper justification for deviation must be given.

7.0 Adequate care must be taken by the successful bidder to avoid transit damage and ensure supply of complete set of items in healthy condition.

8.0 Boarding, lodging and transportation of commissioning personnel will be in the scope of the successful bidder & bidder shall include the cost against this in their quoted price.

9.0 OIL representatives shall carry out pre-dispatch inspection of high mast units with all accessories and witness all necessary testing at manufacturer's works.
To and fro charges of OIL's personnel to manufacturer's works will be to OIL's account.

10.0 High mast units with all accessories shall be guaranteed for 12 (Twelve) months from the date of commissioning.

11.0 Successful Bidder shall submit total 3 (three) sets of operation and maintenance manuals including electrical items for the high mast units (after final assembly and commissioning at site) before handing over the same to OIL.

12.0 Packing shall be done properly to avoid transit damage and water / moisture ingress.

C. BID REJECTION CRITERIA (BRC) / BID EVALUATION CRITERIA (BEC)

A. BRC Clauses:

The offers must conform to the specifications and terms and conditions given in the demand. Bids shall be rejected in case the items offered do not conform to the required parameters stipulated in the technical specifications and to the respective standards wherever stipulated.

Notwithstanding the general conformity of the bids to the stipulated specifications and terms and conditions, the offer / offers will be considered as non-responsive and is / are liable to be rejected on the following grounds:

1.0 If the bidder is an Original Equipment Manufacturer (OEM), then bidder has to submit proof of manufacturing of the offered model / make including supplying and commissioning minimum

30 (Thirty) units of similar type (either 20 m or 30 m or combination of both) high mast lighting system during last 3 (three) years.

2.0 If the bidder is an authorized dealer of an Original Equipment Manufacturer (OEM), then bidder has to submit valid authorized dealership certificate from OEM (high mast system manufacturer) with the bid.

3.0 Bidder has to submit credentials in support of his / their supplying and commissioning minimum 10 (Ten) units of similar type (either 20 m or 30 m or combination of both) high mast lighting systems to Central government / State government organizations / PSUs during last 3 (three) years as on bid closing date.

4.0 Bidder shall agree for installation and commissioning of the high mast units at OILC designated site and quote installation and commissioning charges separately.

5.0 Bidder shall submit quality certificates for the offered model / product while submitting the bid.

6.0 Bidder shall guarantee for the offered high mast units for 12 (Twelve) months from the date of commissioning.

7.0 Offers which meet the BRC requirement clauses as above shall be evaluated only.

B. BID EVALUATION CRITERIA (BEC)

1.0 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.

2.0 For evaluation of bids, supply, transportation, loading, unloading, erection, installation, testing and commissioning of two (02) nos. of High Mast Lighting System as per tender specification will be considered. Comparison of offers will be done on Total F.O.R Oil India Limited~~q~~ **Thaiyat-Hamira Stores** basis; which is 25 KM (approx.) from Jaisalmer Township of Rajasthan as under:

(A) Total Material Cost for 2 Nos of High Mast Lighting System as per Technical Specifications of the Tender

(B) Packing and Forwarding Charges,

(C) Total Ex-works value, (A + B) above

(D) Excise Duty as applicable on (C) above (Please indicate applicable rate of Tax)

(E) Sales Tax as applicable on (C + D) above (Please indicate applicable rate of Tax)

(F) Total FOR Manufacturing station Value, (C + D +E) above

(G) Road Transportation charges including loading and unloading of High Mast Lighting system up to Thaiyat-Hamira Stores

(H) Insurance charges

(I) Erection, Installation/Commissioning Charges including service tax

(J) Inspection/Testing Charges, if any

(K) Total value (F+ G + H+ I + J)

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

4.0 Installation /Commissioning charges should be quoted separately which shall be considered for evaluation of offers. These charges should include amongst others to and fro fares, boarding /lodging and other expenses of the Commissioning Engineers during their stay in Rajasthan. All personnel, Income and Service Tax etc. towards the service provided by the supplier shall be

borne by the supplier and will be deducted at source. Bidder should confirm about installation/commissioning in their Bid. Inspection/Testing charges, if any, shall be quoted separately which shall be considered for evaluation of offers.

5.0 If there is any discrepancy between the unit price and the total price, the unit price will prevail and the total price shall be corrected. Similarly, if there is any discrepancy between words and figure, the amount in words shall prevail and will be adopted for evaluation.

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

D. STANDARD NOTES:

1.0 Materials to be supplied hereunder shall be new, unused, of recent make, of best quality & workmanship and shall be guaranteed by the seller against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the seller shall be replaced immediately by the supplier at the supplier's expense at no extra cost to OIL.

2.0 Bidders are to quote for Unit Material value, Packing/Forwarding Charges, Taxes & Duties as applicable, Transportation, loading, unloading, erection, installation, testing and commissioning charges upto Oil India Limited's **Thaiyat-Hamira Stores** which is 25 KM (approx.) from Jaisalmer Township of Rajasthan, Insurance Charges, Payment Terms, **Best Delivery Period**, Net. & Gross Weight etc. in their offer.

3.0 For order with F.O.R. Destination term, 100% payment against dispatch document will not be entertained. In this regards please refer payment terms in ANNEXURE - MM/RP/GLOBAL/E-01/2005. Bidders are advised to take note of this while mentioning payment term.

4.0 In the event of receipt of only a single offer against the tender within B.C. date, OIL reserves the right to extend the B.C. date as deemed fit by the Company. During the extended period, the bidders who have submitted the bids on or before the original B.C. date shall not be permitted to revise their quotation.

5.0 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.

6.0 Other terms and conditions of the enquiry shall be as per General Terms and Conditions for Global E-Tender vide MM/RP/GLOBAL/E-01/2005. However, if any of the Clauses of this tender document contradict the Clauses of the booklet MM/RP/GLOBAL/E-01/2005 elsewhere, those in this tender document shall prevail.

Check List

The check list must be completed and returned with the offer with bidder's comment as per format detailed below. Bidder is to ensure that all the following points are covered in the offer. This will ensure proper evaluation of the offer.

Sl. No	Item	Yes / No / Agree
1.	Are you an OEM (high mast lighting system designer & manufacturer)	
2.	Are you an authorized agent / dealer of the manufacturer?	
3.	VALID document / certificate as OEM / Dealer submitted? [Please note that it is a Bid Rejection Criterion]	
4.	Have you submitted credentials in support of your supplying and commissioning minimum 10 (Ten) units of similar type of high mast lighting systems (30 m or 20 m height or combination of both) to reputed central / state govt. / PSUs during last 3 years as on bid closing date? [Please note that these are Bid Rejection Criteria]	
5	Have you submitted credentials of the manufacturer having manufactured similar high mast lighting system? [Please note that it is a Bid Rejection Criterion]	
6	Do you agree for installation and commissioning of the high mast units at OIL's designated site?	
7	Have you quoted erection, installation, testing & commissioning charges separately?	
8	Have you submitted full technical specifications for the high mast lighting system and accessories and detailed documents / drawings / test certificates as per Para 15.0?	
9	Do you agree for pre-dispatch inspection? Please note that test certificates etc. are to be submitted at the time of final inspection, failing which dispatch clearance will not be given.	
10	Have you offered guarantee for 12 (Twelve) months for the offered high masts? [Please note that it is a Bid Rejection Criterion]	
11	Have you mentioned any deviations?	
12	Have you mentioned any other item(s) / points not indicated / included in the specifications but deemed necessary for design, Installation and commissioning, efficient control and operation of the high mast lighting system?	