



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

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FORWARDING LETTER

Tender No. : SDI3154P20 DT:23.11.2019
Tender Fee : NIL
Bid Security : Applicable
Bidding Type : SINGLE STAGE COMPOSITE BID SYSTEM
Bid Closing on : 26.03.2020 (11.00 HRS IST)
Bid Opening on : 26.03.2020 (14.00 HRS IST)
Performance Security : Applicable
Integrity Pact : Not Applicable

The items covered by this enquiry shall be used by Oil India Limited in the PEL/ML areas which are issued/renewed after 01/04/99 and hence 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.

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 <https://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.

OIL invites Bids for **SUPPLY, INSTALLATION & COMMISSIONING OF ELECTRICAL EQUIPMENTS – QTY = 01 NO** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/LOCAL/E-01/2005 for E-Procurement Indigeneous 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.

No physical tender documents will be provided. Details of NIT can be viewed using “Guest Login” provided in the e-Procurement portal. The link to e-Procurement portal has been also provided through OIL’s web site www.oil-india.com.

The tender will be governed by:

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

b) OIL’s office timings are as below:

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

Vendors should contact OIL officials at above timings only.

c) OIL Bank Details :

	Bank Details of Beneficiary	
a	Bank Name	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

- d) “General Terms & Conditions” for e-Procurement as per Booklet No. MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders.
- e) Technical specifications and Quantity as per **Annexure – 1A**.
- f) The prescribed Bid Forms for submission of bids are available in the Technical RFx-> External Area - > Tender Documents.
- g) Amendments to the NIT after its issue will be published on OIL’s website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.
- h) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).
- i) 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- COMPOSITE BID SYSTEM. The bidders are required to submit both the “TECHNO-COMMERCIAL UNPRICED BID” and “PRICED BID” through electronic format in the OIL’s e-Tender portal within the Bid Closing Date and Time stipulated in the e-Tender.

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

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL’s e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date** to **GM- 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 The tender shall be governed by the Bid Rejection & Bid Evaluation Criteria given in enclosed **Annexure-CCC**. **However, if any of the Clauses of the Bid Rejection Criteria /**

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

9.0 To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

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

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

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

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

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

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

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

a) M/s Western Carriers (India) Ltd.

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

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

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

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 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.

18.0 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.

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 *

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NOTE:

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

Yours Faithfully

**Sd-
(BANDANA BORAH)
SPO (IP)
FOR : CGM-MATERIALS**

Tender No & Date: SDI3154P20 DT:23.11.2019

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

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

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

<u>Criteria</u>	Complied / Not Complied. (Remarks if any)
<p>1.0 BID REJECTION CRITERIA (BRC):</p> <p>The bid shall conform generally to the specifications, terms and conditions given in this document. Notwithstanding the general conformity of the bids to the stipulated specifications, the following requirements will have to be particularly met by the Bidders without which the same will be considered as non-responsive and rejected.</p> <p>A) TECHNICAL:</p> <p>1. Bidder should have the experience of successfully executing at least 1(one) Similar Order of value not less than Rs. 06.00 lakh in last 5(five) years as on the original bid closing date of this tender.</p> <p>“Similar order” means “Internal/External Electrification of housing colonies or illumination work of industrial sheds/workshop/power generation stations/auditoriums/warehouses etc. With high/medium bay light fittings or street lighting projects or high mast lighting system projects etc. With supply of materials, installation and commissioning in any central/state government/PSU/Public Limited Company in last 5 (five) years from the original bid closing date.</p> <p>Note: Documentary evidence in respect of the above should be submitted in the form of copies of relevant Purchase Orders along with copies of any of the 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 06.00 lakhs.**

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'.

Notes:

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

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

OR

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

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

C) COMMERCIAL:

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

ii) Bid security:

The bid must be accompanied by Bid Security of **Rs. 24,000.00** 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 DGM-Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender. **The Bank Guarantee towards Bid Security shall be valid for 6 months from Bid closing date. (i.e. 30.09.2020)**

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

iv) Performance Security:

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

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

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

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

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

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

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

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:

i) The bids will be evaluated strictly as per NIT specification, terms & 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) A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC.

iii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.

NOTE:

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

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TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No & Date: SDI3154P20 DT:23.11.2019

	Complied / Not Complied. (Remarks if any)
<p><u>ITEM NO. 10</u></p> <p>Supply, installation, testing and commissioning of Electrical Equipment (LED luminaires, accessories, distribution boards, switches, cables and other accessories etc.) for Improvement of Illumination of Central Workshop at Industrial area, Oil India Limited, Duliajan. – QTY = 01 NO</p> <p>Central Workshop is located within the Industrial Area of OIL, Duliajan (Assam). This workshop operates on a two-shift basis, six days a week. The present level of illumination is not adequate, especially during evening hours, after sundown. In order to improve the illumination of the Central Workshop to an acceptable level, it is proposed to carry out an illumination improvement project.</p> <p>The present illumination improvement project encompasses the following shops of Central Workshop (CWS):</p> <ul style="list-style-type: none"> - Machine Shop - Welding shop <p>The approximate physical dimensions of these shops are as follows:</p> <ol style="list-style-type: none"> 1. Machine Shop - 73 m x 10 m x 9 m (L x B x H) 2. Welding Shop - 40 m x 14 m x 9 m (L x B x H) <p>The heights mentioned herein are the truss heights, where the luminaires are expected to be fitted. However, bidder should confirm the exact dimensions before commencement of work.</p> <p>The entire work of improvement of illumination should be completed within nine months from the starting date. The starting date shall be the date of issue of PO.</p> <p>A. PROJECT OBJECTIVE</p> <p>The objective is to improve the illumination level of the workshop (both machine and welding shops) by replacing the existing high bay luminaires (High Intensity Discharge lamps) with LED type high bay luminaires. This involves supply of LED light fittings, mounting arrangement of the fittings, modular switches for individual light fittings, modular boxes, cables, junction boxes, distribution boxes, MCB DBs etc. and installation and commissioning of the same within the prescribed time limit.</p> <p>The target illumination level is an average of 300 lux throughout both the shops of the central workshop. The minimum acceptable level of illumination is 200 lux.</p> <p>OIL has made a theoretical study of the requirement and estimated 51 nos. of LED light fittings</p>	

of 120 W with lumen efficacy of minimum 100 lumen/watt, which will apparently give the targeted illumination level as above.

The Schedule of Quantity (SoQ), accordingly, is made with the estimated required quantity as above. The quantities given in the SoQ are minimum required quantities and must be quoted accordingly. However, potential bidders can inspect the site and have discussions with Company's representatives at Duliajan before bidding, if felt necessary. Bidder may calculate the lighting requirement on their own with a standard lighting software such as Dialux and quote for light fittings accordingly. Nevertheless, the rated power and lumen efficacy of the quoted fittings shall not be less than the figures mentioned in SoQ.

The successful bidders shall submit the illumination and wiring scheme to OIL for approval before proceeding to the construction/installation phase.

The detailed process of measurement of Illuminance is given in Annexure - 2.

The scope of work comprises:

- i) Design of the scheme and lighting layout
- ii) Selection, Supply, Installation, Testing and Commissioning (SITC), as required, of
 - a. Lighting fixtures complete with lamps, supports and accessories,
 - b. Lighting panels/structures/canopy,
 - c. Distribution boxes,
 - d. Junction boxes
 - e. Switchboards,
 - f. Switches,
 - g. Cables and wires including earth wires, glands, etc.
- iii) Any other equipment/fitting/item not listed above, but necessary for completion of the job.
- iv) Dismantling of existing fittings and depositing the scrap at a central place indicated by OIL.
- v) A more detailed description of the jobs to be done is provided in section B below.

B. DESCRIPTION OF WORK / ITEMS & TIME FOR COMPLETION

The following minimum jobs/works should be carried out:

B.1 Designing the lighting scheme to achieve the targeted illumination level, and supply and fixing of new high-bay LED light fittings as given below:

Luminaire: LED Luminaires, high bay type, minimum wattage 120 W, luminous efficacy more than 100 lumens/watt suitable for 230/240VAC, 50 Hz supply as specified in SoQ - 51 nos. (minimum) as per OIL's estimate.

The quantity of light fittings given above is minimum required as per OIL's estimate. Bidders should also calculate the required number and type of fittings based on target illumination level as specified in Clause A: "Project Objectives" above. However, the quantity, wattage and lumen efficacy of the fittings shall not be less than the values given in the SoQ. The details of bidder's own calculations should be made available to OIL along with the bid.

B.2 Supply of items as per SoQ and delivery up to Central Workshop premises.

B.3 General conditions for luminaires:

(i) Central Workshop is open for 16 (sixteen) hours a day and is run in two shifts, morning and evening. Hence, the successful bidder/supplier shall ensure that job of wiring/cabling and fixing of new light fittings do not hamper either the operations in the workshop or existing luminaires.

Dismantling of old luminaires and cables shall be taken up only after new light fittings have been tested successfully and stabilized.

(ii) All lighting fixtures and accessories shall be designed for continuous operation under site conditions, without reduction in the life or without any deterioration of materials and internal wiring/cabling.

(iii) Lighting fixtures and accessories shall be suitable for operation on 240 VAC, 50Hz supply, with voltage variation of $\pm 10\%$, frequency variation of $\pm 5\%$ and combined voltage and frequency variation of $\pm 10\%$.

(iv) All light fittings shall be complete with accessories such as drivers (if not integral to fitting), connecting wires, mounting clamps, down rods/steel conduits and others (as per manufacturer's recommendations) etc.

(v) All Light fittings should be distributed in a symmetrical fashion on the roof truss/fixing points, so that the illuminance achieved is uniform.

B.4 Fixing the luminaires to the truss/roof:

For fixing of the luminaires on to the truss/roof of the building, the following shall apply:

- o All luminaires shall be fitted using integral eyebolts, metal clamps/down rods and/or steel conduits, or other permanent fixing arrangements.

- o No temporary fixing arrangement shall be allowed.

- o Fixing arrangements shall be inspected and approved by OIL's Engineer-in-charge before installation/fixing.

- o The wiring of the cable to the luminaires shall be through the metallic structure of the workshop/Cable trays. Therefore, some of the jobs may require small fabrication. Any welding/cutting will not be allowed on the roof/truss. Metallic clamps may be used with steel fasteners.

- o The materials required like cable glands, GI pipes/angle iron (for mounting arrangement, cable routing wherever required), insulating tapes, Luminaire mounting hooks, fabrication jobs etc. and any other items required for the installation/ wiring but not mentioned in the specifications shall be the responsibility of the supplier.

- o Supply, installation and commissioning of steel conduit/suspension rod/down rod with fixture hanger for the light fittings:

The LED fittings shall be suspended from the metal truss of the building with the help of steel conduits (with threaded ends) or any other suitable means for suspension of the fitting as recommended by the manufacturer of the fitting. MS Connection box/junction box etc. shall be used for connection of all cables. All such accessories for suspension of the fitting shall be in the scope of the supplier. Cable size of up to 3 C x 4.0 mm² armoured copper conductor cables shall be used for wiring from the switchboard to the light fittings. No joints shall be allowed in MS conduit/down rods used for suspension of the light fittings. The suspension rod shall be of adequate strength to withstand the dead and impact forces imposed on it.

Supplier shall have to abide by and implement any modifications required after such inspection.

B.5 Supply, Installation and commissioning of associated cabling / wiring (including metal cable trays for cable support) for the new high-bay light fittings:

Cables for the project shall be of sizes:

i) Modular switchboard to individual light fittings: Copper conductor, PVC sheathed, Armoured

of size up to 3 C x 4.0 mm² [OIL will supply the cable; approximate length considered is 1400 m.]

ii) SPN DB to modular switchboard: Copper conductor, PVC sheathed, Armoured of size 3 C x 4.0 mm² [This cable will be in the scope of supplier.]

iii) VTPN DB to SPN DB: Aluminium conductor, PVC sheathed, Armoured of size 3 C x 25.0 mm² [OIL will supply the cable; approximate length considered is 500 m.]

All the termination shall be provided with suitable lugs/sockets and shall include cable glands, GI Pipes, fabrication etc. wherever required.

Bidder is advised to visit the site for measurement of cables before bidding. The length of cable mentioned in SoQ is an approximate measurement of the cable required. Bidders should calculate the length of cable required for obtaining the target illumination level as specified in Clause A: "Project Objectives" above. However, the length of cable shall not be less than the values given in the SoQ.

Cables have to be run from VTPN DB (to be identified by OIL) to the appropriate SPN DB, thence on to the Switchboard, and finally to the high bay light fittings. All such cabling job shall be in the scope of the supplier. All required glands/sockets/clamps/saddles etc. required for the job shall also be in the scope of the supplier.

B.5.1 All cables in the bidder's scope shall be new.

B.5.2 All cables in the bidder's scope shall be FRLS type, and conforming to relevant BIS standard.

B.5.3 All cables / wires shall be of 1100V grade.

B.5.4 Each cable run shall be tagged with the number that appears in the cable schedule. Cables shall be tagged at their entrance and/or exit from any piece of equipment, junction box, etc.

B.5.5 Cables shall be fixed with MS saddles on to the metal cable trays or on truss members of the building.

B.6 Supply, Installation and commissioning of other Electrical items given in SoQ, required for operation of the new high-bay LED light fittings including, but not limited to, the following:

- a) SPN DB,
- b) Junction boxes,
- c) MCBs,
- d) RCBOs,
- e) Switchboards (modular switchboards including modular switches and blank plates)
- f) Terminal Blocks,
- g) Connecting lugs/sockets
- h) Cable trays, etc.

All electrical devices/equipment shall operate on 415VAC, 50 Hz (for 3-phase equipment) or 240 VAC, 50 Hz (for single phase equipment).

The following shall be applicable for the Electrical Items:

- VTPN DB (identified by OIL) will be used to distribute power to SPN DBs.
- From SPN DBs, the power supply to individual lights shall be through individual switches in switchboards.

Each newly fitted high-bay LED light fitting should be capable of being turned ON-OFF individually without affecting operation of the other lights. The arrangement of switchboards, DBs, trays and design of circuit wiring / cabling should be done accordingly.

In addition, power supply to the light fittings shall be so arranged that outage of one circuit/phase should not render a portion of the workshop totally dark. For this, a suitable schematic shall be drawn up for power supply arrangement to adjacent light fittings from the

different phases.

B.7 Standards of wiring and installation/fixing shall be uniformly high and acceptable to OIL.

B.8 The total time available for completing this "illumination improvement" job is nine months which shall be reckoned from the date of issue of PO.

B.9 OTHER JOB INVOLVEMENT DURING INSTALLATION AND COMMISSIONING

1. All items are to be transferred and delivered at Central Workshop inside OIL's Industrial Area in Duliajan and installed and commissioned by the supplier. Supplier shall bring all tools, hoist, instruments, drill machine, hand grinder, bench vice, hack saw, ladder, PPEs etc. required for installation and commissioning work. OIL shall supply electrical power without any charge for operation of hand tools required during installation work.

2. All works of installation and commissioning shall be carried out in complete with latest provisions of Indian Standards, CEA Regulations and National Electric Code.

3. MS straps, angle iron, saddles and other structural support items required for mounting, wiring and installation of all items, cables and cable trays etc. shall be in the scope of the supplier. The welding and gas cutting services required for fabrication of all supports, hangers, frames etc. and fixing of the same on columns, trusses shall be provided by the supplier. Welding/cutting jobs will not be allowed on the roof/truss of the work site.

4. In broad, the following installation and commissioning work shall be done by the supplier.

i) Luminaires shall be suspended from roof truss with support rods/down rods/conduits as required. Support and clamps for mounting lights shall be fixed to roof truss with hardware. Height of mounting of light fitting shall be such that it does not interfere with the movement of EOT crane present in the workshop and is accessible for maintenance after standing on the overhead EOT crane.

ii) GI cable Trays shall be mounted vertically on columns for laying cables. MS angles shall be fixed lengthwise, between columns for supporting cable trays to columns for trays running vertically. Cable Trays shall be fixed with nut bolts to the angle and strap.

iii) Necessary bending, cutting, making holes and finishing of ends of clamps and angle iron as required shall be done by the supplier. All angles and clamps shall be fixed to columns and other structural part with fasteners.

iv) Supplied items shall be installed and connected with cables as per approved drawing and cable glands shall be fitted at all cable entry points.

v) All connections shall be done with tinned copper lugs.

vi) Earthing job shall be done as per IS-3043. Lights and control boxes shall be earthed by the earth core of their supply cable as required.

vii) All cable glands, cable termination lugs, fixing hardware, saddles etc., required for complete electrification work shall be supplied by the supplier as part of installation job.

viii) Supplier shall complete the installation work as described above for all supplied items.

ix) All the fabricated supports shall be painted with red oxide primer and then painted with two coats of DA grey paint after their installation. Paint shall be supplied by supplier as part of installation job.

x) All safety and local/government regulations shall be followed during installation, testing and commissioning. Supplier shall be responsible for compliance to such regulations on their own.

xi) All unused supply items shall be handed over to OIL.

xii) The supplier should obtain the permit to work from Engineer in-Charge or respective Installation Managers before taking up work, if any.

B.10 Dismantling of existing light fittings along with associated cabling, wiring, TPN/SPN DBs, Switchboards. The following is an approximate measurement of the lights existing in the two shops:

- i. Machine Shop - 22 High-bay fittings
- ii. Welding shop - 14 High-bay fittings

Dismantling also involves removing these materials from the periphery of the workshop to a place indicated by OIL. Such designated place shall be located within 50m from the shops. However, dismantling job will be taken up only after new light fittings (along with their power distribution system) are installed and their operation tested successfully.

C. WORK-SITE AND CONDITIONS FOR CARRYING OUT JOBS

C.1 The entire job shall be carried out at the individual shops of Central Workshop ("site"), inside the Main Industrial Area of Oil India Limited, at Duliajan.

C.2 A joint survey of the workshop for determining the existing level of illumination and input power consumption shall be taken before commencement of job. The survey shall be repeated after successful commissioning of the entire illumination improvement project, to determine the illumination level with the new lighting system, as well as power consumption for the new system. The method of determining the illumination is explained in Annexure - 2.

C.3 As mentioned before, the Central workshop works on a two-shift basis, Monday through Saturday, with only Sundays being non-working (off) day. Work of the entire CWS or any of its workstations shall on no account be modified or suspended to accommodate the illumination improvement project. Bidders are advised to take note of this essential requirement.

Hence the worksite (CWS) shall be available for carrying out jobs under this project from 8 AM to 4PM each day, Monday through Saturday. There shall be no job allowed on Sundays. Gate pass for all work persons engaged for this job shall have to be arranged by supplier.

C.4 OIL requires the use of specific permits in notified mining installations and hazardous areas. Supplier shall have to obtain all such permits & clearances from concerned installation manager before starting work. OIL shall extend all help and assistance to the supplier to obtain such permits for work inside the Industrial area.

C.5 All required tools & tackles like drill machines, welding/cutting set etc. shall be in the scope of the supplier. OIL shall supply single phase/three phase electrical power at site (subject to a maximum power of 5 kW, and reasonable usage pattern), free of charge for carrying out the job.

D. SAFETY AND STATUTORY PROVISIONS

D.1 Since the installation and commissioning work involves working at a considerable height, supplier shall ensure that the workers engaged by him are physically and psychologically fit, and do not suffer from afflictions like vertigo, motion sickness, etc.

D.2 Supplier shall have to ensure that all work-persons engaged under this project are trained in the use of appropriate Personal Protective Equipment (PPE). All necessary PPEs such as safety boots, helmets, gloves, safety goggles, safety belt etc. for the project jobs shall have to be arranged by the Supplier.

D.3 Supplier shall have to ensure that all the work under this project is carried out under the direct and active supervision of an expert and competent person. The expert / competent person shall hold a valid Electrical supervisor's certificate of competency, having the relevant parts, and issued or endorsed by State Electrical Licensing Board, Assam. A copy of such certificate shall have to be deposited to Oil India Limited before starting of installation work.

D.4 Supplier shall employ work persons with valid wireman permit (covering relevant portions), issued/recognised/endorsed by State Licensing Board, Govt. of Assam to carry out all electrical jobs. A copy of such certificate shall have to be deposited to Oil India Limited before starting of installation work.

D.5 Validity of all certificates/permits/licenses mentioned above shall be reckoned as on the original bid closing date.

D.6 Supplier shall have to ensure that all personnel engaged by him under this project observe at all times, all applicable rules and regulations in force. If any such personnel is found unsuitable by OIL for any reason whatsoever, supplier shall have to replace such personnel forthwith. OIL cannot be held accountable for any delay in execution of the project on this account.

D.7 All necessary statutory clearances and work permits, entry permits, etc. shall have to be obtained by supplier before commencement of work at site.

D.8 Supplier shall ensure that all Electrical equipment or enclosure carrying live equipment (e.g. Control panels, DBs etc.) have a caution/danger notice fixed on it.

D.9 Earthing provisions for the light fixtures & electrical system shall have to be as per IS:3043 or equivalent.

E. APPROVALS AND APPROVED MAKES

E.1 Supplier shall have to obtain written approval from Oil India Ltd., for all items used in this project. As a guide, approved brands for different items are given in Annexure-1. In case Supplier decides to use the approved brands against the items specified therein, no separate approval is necessary. However, the declaration as to make and quantity should be stated to OIL beforehand for all cases.

E.2 The supplier shall be responsible and liable for any change in the work due to any discrepancies, errors, or omissions in the drawings or other particulars which have arisen due to inaccurate information or particulars furnished by the supplier, even though approved by OIL.

F. DOCUMENTATION

F.1 The following documents/drawings/calculations shall have to be submitted to OIL within 30 days from the date of acceptance/notification of award of purchase order:

a) Draft Layout: This should contain a layout of the light fixtures, the schematic / SLD of the associated power supply system and the expected illumination level. Once the initial/draft layout design is complete, it shall be submitted for approval of OIL before any construction or installation work is carried out (See clause B, 4.0 above)

b) Bill of Materials (BOM): This should contain the quantity of fixtures and associated equipment and make list of all equipment/fixtures/items to be used in this project.

F.2 All drawings which the supplier shall send to OIL for approval shall be approved or rejected or returned for modification within 15 days of receipt by OIL. In case of modification or rejection, the supplier shall submit the corrected drawings within 15 days from receipt of communication from OIL.

F.3 Supplier shall be responsible for any delay in purchase order processing and its award caused by non-conforming technical particulars furnished by the supplier requiring query, confirmation etc.

F.4 Upon approval by OIL, the drawings shall become the approved drawings and thereafter, the supplier shall not deviate from them in any way whatsoever except with the written permission of OIL.

F.5 Supplier shall have to submit the following documents to OIL after successful commissioning of the project:

a) Schematic diagram, showing the scheme of lighting of the Workshops

b) "As-Built" Wiring diagram / Cable schedule, showing location of each lighting fixture, Distribution board, switch, SPN DB etc.

c) Lighting fixtures layout diagram, showing the physical mounting and positioning of the

fixtures.

d) Guarantee certificate, as provided below.

e) Measured illumination level, maximum/average/minimum values in each shop and overall values.

All titles, notes and inscriptions on the drawings shall be in English. All such drawings are subject to acceptance by OIL.

G. GUARANTEE / WARRANTY

The supplier should provide a guarantee to OIL that all materials supplied under the project are of good quality, and that all works executed under this project shall be of good workmanship, and that he shall arrange to replace or repair any defect identified therein within 1 (one) year of commissioning of the new lighting system.

H. INFORMATION TO BIDDER

H.1 Bidders shall carefully examine the provisions in clause B.10 above related to completion schedule.

H.2 Detailed Engineering required to establish location of light fittings, SPN DB, JB etc. shall be carried out after award of purchase order.

I. INSTALLATION, COMMISSIONING AND COMPLETION OF THE PROJECT

The project shall be deemed to be successfully completed once the following are executed:

i) Successful Installation of all new light fittings, and associated cabling/devices/equipment.

ii) Measurement of the illumination level (this shall be jointly measured by OIL and the supplier, using lux level meter, at a time two hours after sundown - see Annexure 2 for more details) in all the shops. If the average value of the measured illumination levels is found to fall short of the minimum specified levels or if the illumination level at any point is less than the specified minimum limit, the supplier shall have to re-arrange the fittings and/or provide additional fittings to achieve the specified levels of illumination at no additional cost to OIL. The material cost/labour charges required for these additional works shall be on supplier's account. The illumination level shall be again measured and shall be recorded jointly by OIL and the supplier. These details are given in Annexure- 2.

iii) Dismantling of all existing light fittings and associated cabling/electrical devices/cables/accessories.

iv) The area has been cleared of all scrap material generated during the process of work.

v) Supplier has removed/dismantled any temporary work-shed/scaffolding erected during course of work, and removed all his materials from site. Any temporary electrical connection drawn during construction phase should also be removed / restored.

vi) All unused / un-fitted material from original list declared by supplier has been handed over to OIL.

vii) All materials taken on loan from OIL has been returned undamaged.

viii) All gate passes, and unused material passes, if any, returned to OIL.

ix) All final drawings/documents are submitted. These shall be "as-built" and approved by OIL.

J. PAYMENT TERMS

J.1 Payment terms will be as follows:

a) 70% against supply of all materials required for successful commissioning of the project including commissioning spares.

<p>b) 100% against successful installation and commissioning, subject to Clause I above. However, this amount will be on hold subject to fulfilment of the target illumination levels as detailed in Clause I (ii) and Annexure- 2. If the supplier fails to achieve the illumination levels as described, he will make arrangement to improve the same by rearranging the light grid and/or providing additional fittings.</p> <p>Once these conditions are met and are to OIL's satisfaction, the payment against installation and commissioning (100%) can be made.</p> <p>c) 30% balance against materials supply cost: This amount will be paid to the supplier after successful installation and commissioning as above in Clause (b).</p> <p>J.2 No part payment nor any working advance payment shall be made against this project. All payments shall be made as per the payment terms and schedule as above. Final payment shall be made after deductions if, and as applicable.</p> <p>J.3 Liquidated Damages (LD) - The work (in both the shops) is expected to be completed within nine months from date of issue of PO. If work is not completed, standard damages may be recovered as per Company's policy. Bidders should note that LD clauses are not affected by any other performance related issues.</p> <p>Note: Annexure 1, Annexure 2 and SoQ is enclosed in the attachment.</p>	
<p><u>Item No. 20 :- Installation & Commissioning (1 AU)</u></p>	

NOTE:

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

ANNEXURE – 1 - Approved Make of Items

SL No	Item Description	Approved make
1	Armoured Cable – 3C x 4 sq. mm. PVC insulated, FRLS, Armoured Copper conductor	Havells/Necab/Polycab/Finolex/L&T/KEI/RR Kabel
2	Modular switches/Socket/Box/ Blank plate	Legrand/Schneider/Crabtree/ Indoasian- Elvira/ Havells
3	All MCB'S (10KA, C- curve)	Legrand/Schneider/Siemens/Indo Asian/L&T/ Havells
4	All RCBO Note: Make of RCBO, MCBs and box shall be of same make.	Legrand/Schneider/Siemens/Indo Asian/L&T/ Havells
5	All MCB DB Note: MCB DB and MCBs/RCBO fitted therein have to be of same make.	Legrand/Schneider/Siemens/Indo Asian/L&T/ Havells
6	LED High-bay Light fittings	Philips/Bajaj/Havells/Crompton/Osram/ Surya/Eveready/ HPL/Jaquar/C&S/Panasonic/ Anchor/Pyrotech/Ledure/Eminent
7	Metal GI Box	Legrand/Schneider/Crabtree/Indoasian/ Elvira/Havells
8	Cable gland	Baliga Lighting Equipment pvt Ltd./ Gland Mech Industries/ Dowell's/3D Billets/Comet
9	Cable tray	Legrand/Schneider/Universal

Note: 1 – Bidders should mention offered makes & models (as applicable) in their bids.

Note: 2 – Bidders offering makes other than those specified above should mention this fact prominently, requesting approval for use in the project, and enclose technical literature in support of equivalence to the specified makes for consideration of Oil India Limited. OIL's decision (as to whether unspecified makes shall be acceptable or not) shall be final and binding.

ANNEXURE – 2 - Measurement of Illuminance

1. All measurements shall be done at least two hours after sunset.
2. Measurements shall be carried out jointly, using a lux-meter supplied by Oil India Ltd. If the supplier desires, he may use his own lux meter, in which case, average reading from both meters shall be noted per measurement point. Same meter/s will be used to measure illumination before and after completion of the job.
3. The minimum number of illuminance measurement points per individual shop shall be based on the Room Index (RI):

$$RI = \frac{L \times B}{H \times (L + B)}$$

Where,

L = Length of room;

B = Breadth (Width) of room; and

H = Height of luminaire above the plane of measurement

(all measurements in metres)

Based on the RI, the minimum number of measurement points shall be calculated as:

Room Index	Number of measurement points in the grid
RI < 1	8
1 < RI < 2	18
2 < RI < 3	32
RI > 3	50

4. The measurement grid shall be positioned to cover a proportionate and representative area of the working plane. The working plane shall be an imaginary plane one metre above the floor.
5. The illuminance reading in lux shall be noted for each measurement point on this imaginary plane and the average value calculated.
6. The target illumination level is
(i) **Average Value:** An average of **300** lux throughout the two shops.
7. The minimum acceptable level of illumination is **200** lux.
8. If the average value of the measured illumination levels is found to fall short of the minimum specified levels, the supplier shall have to provide additional lighting fixtures so as to achieve the specified levels of illumination. In such a case, the additional cost and time over-run shall be at contractor's expense.

Details of Re-work/Re-arrangement of Lighting Grid and/or Provision of Additional Light Fittings:

The supplier shall re-work (re-position) and/or provide additional light fittings upon not achieving targeted average Illumination levels (values measured in lux) per shop:

Average Value (Lux) in each workshop	Requirement
300 or better	Target achieved
291-300	Acceptable
251-290	Re-arrangement of the position of light fittings in the grid and/or provision of extra light fittings; after re-arrangement/addition of luminaires, 95% or better of the target value is acceptable, i.e., an average of 285 lux or better.
250 or lower	Not acceptable; supplier has to re-design the entire lighting scheme and provide/ install additional fittings

9. Each shop shall be measured individually for the target parameter.
10. The above shall not affect, or be affected by, Liquidated Damages (LD), which shall be calculated and applied separately and additionally, if applicable.

SoQ for Central Workshop Illumination				
S/line No	Short Description	Description of Item	Unit	Quantity
10	Point wiring with up to 3x4.0 sq mm PVCA copper cable (cable to be supplied by OIL)	Wiring for light point with 1100 V grade, Heavy duty, PVC insulated, PVC sheathed, galvanised steel round wire armoured cable with stranded, untinned copper conductor as per IS: 1554. Cable size will be up to 3 C x 4.0 mm ² . The cable shall be supplied by OIL. Cables shall be tied to columns/truss/MS tray with cable tie. The cable shall be brought out from the switchboards to light point through suitably sized single compression metal cable glands (through a metal box for facilitating cable termination/gland fitting).	Metre	1400
20	Circuit wiring with 3 x 4 sq.mm PVCA Copper cable	Wiring for circuit from SPN DB to Switchboard with 3x4sq mm, 1100 V grade, Heavy duty, PVC insulated, PVC sheathed, galvanised steel round wire armoured cable with stranded, copper conductor. All core insulations of the cable shall be colour coded with red, black and green colours. All insulated cores laid up together, covered with inner sheath of extruded black PVC compound, galvanised steel wire armour and black PVC outer sheath. Sufficient filler shall be used to give overall circular shape to the cable. The cable shall be approved by IS: 1554 with latest amendments. PVC insulation should be as per IS: 5831. Armour should be as per IS-3975. Conductor should be as per IS: 8130. Manufacturer's name, cable size, voltage grade, ISI mark should be marked on the cable outer sheath in permanent manner at regular interval. Sequential marking should be provided on the cable outer sheath at every one metre length for measurement during use. Cables shall be tied to columns/truss/ MS tray with suitable cable tie. Cable shall be brought out from the SPN DB to individual metal termination box for the Switchboard through suitably sized single compression metal cable glands for termination. Cable glands shall be in the scope of the supplier.	Metre	420

30	Circuit Wiring with 3x25.0 sq.mm PVCA aluminium cable (cable to be supplied by OIL)	Wiring for circuit from VTPN DB to SPN DB with 3x25 sq. mm, 1100 V grade, Heavy duty, PVC insulated, PVC sheathed, galvanised steel wire armoured cable with stranded, aluminium conductor. The cable shall be supplied by OIL. Cables shall be tied to columns/truss/MS tray with cable tie. The cable shall be brought out from the VTPN DB to SPNDB through suitably sized single compression metal cable glands. Cable glands shall be in the scope of supplier.	Metre	500
40	Supply and Fixing of 8 Module Switchboard	Supply and Fixing of 8 Module type Switch Board. Box shall be made out of steel sheet of min 1.20 mm thickness and complete finished box should be duly pre-treated, zinc coated & passivated or made of GI sheet of 1.2mm thickness to accommodate specified number of electrical accessories and suitable for indoor electrical installation with provision for earthing terminal. The Switchboard shall have Frame Plate with matching Cover Plate suitable to accommodate specified number of electrical accessories. Frame Plate shall be made out of polycarbonate. All the incoming and outgoing cables should be properly glanded with the switch board. The configurations for the relevant plate are defined as under: A- Number of Rows: 1; B- Number of openings: 8; C- Size of opening- 1M	No	12
50	Supply and fixing of 6 A Modular Switch	Supply and fixing of 6 A Modular switch in the existing modular boxes. Modular type switch shall be ISI marked switch modular, unenclosed, push / piano type suitable for flush mounting with screw type terminals suitable for 250V, 50Hz. supply and conforming to IS: 3854/1997 Reaffirmed 2007. Make of modular switch board and modular switch shall be same.	No	51
60	Supply and fixing of modular type blanking plate	Supply and fixing of Blank Plate	No	36

70	Supply, Installation, Testing & commissioning of Single phase 63 A MCB DB, 12 way-double door	Supply, Installation, Testing & commissioning of 12 WAY (16 slot) SPN MCB DB with double door , single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface , complete with 100 A tinned 12 way copper busbar, 12 way neutral busbar, 12 way earth bar, DIN bar, detachable gland plate with knockouts, interconnections, phosphatized and powder painted including earthing etc. as required. DB shall have following as incomer: 63 A RCBO, sensitivity 100 mA -1 no. Outgoings are 10 A MCB, C curve-5 nos., 20 A MCB, C curve- 3 nos. RCBO, MCBs and box shall be of same make. All accessories like Lugs/Thimble etc. required for installation shall be supplied by Contractor. All the incoming and outgoing cables should be properly glanded with the MCB DB.	No	3
80	Supply, Installation, testing and commissioning of high bay type LED luminaire	Supply, Installation, testing and commissioning of high bay LED luminaire with all accessories including fixing arrangement, wiring and connection with 4.0 mm sq. PVCA copper cable. The light fitting should be securely suspended and properly brought down. However, it must not interfere with the movement of EOT crane present in the workshop. All incoming cables should be properly glanded with the luminaire. If necessary, the luminaire should be fitted with junction box to make arrangement for proper glanding of cable. Minimum lumen shall be 10000 +/- 5% Lumen, Colour Temperature 5700K+/-300K, Luminaire efficacy: >100 Lm/W, IP 65.	No	51
90	Supply and Fixing of 200 mm X 250 mm X 100 mm deep metal box	Supplying and fixing metal box of 200 mm X 250 mm X 100 mm on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.	No	6
100	Supply and Fixing of 150 mm X 150 mm X 60 mm deep metal box	Supplying and fixing metal box of 150 mm X 150 mm X 60 mm on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.	No	12
110	MS Cable tray	Supplying and installation of 150 X 50 X 1.6 mm size perforated, painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc. as required.	Metre	600

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

Sl 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.