ANNEXURE-I

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

INVITATION FOR BID
NATIONAL COMPETITIVE BID

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

E-TENDER NO.	BID CLOSING / OPENING DATE	ITEM & QTY.
SDI3281P17/P3	**02.02.2017**	**MANIFOLD – 02 Nos.**
SDI3346P17/P2	**02.02.2017**	**ANESTHESIA WORKSTATION – 01 No**
SDI3348P17/P2	**02.02.2017**	**PNEUMATIC PRESSURE CONTROLLER – 15 Nos.**
SDI3352P17/P4	**02.02.2017**	**CREW CABIN-05 Nos.**
SDI3356P17/P3	**02.02.2017**	**NEURA LOG SCANNER – 1 No.**
SDI3301P17/P3	**02.02.2017**	**PIPE BENDING MACHINE – 1 No.**
SDI3400P17/P3	**02.02.2017**	**PMCC PANEL – 04 NOS**
SDI3393P17/P3	**02.02.2017**	**PORTABLE ULTRASONIC FLOWMETER – 08 Nos**
SDI3392P17/P3	**02.02.2017**	**SKID MOUNTED LIGHTING FEEDER HUT – QTY = 02 Nos**

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

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

OIL INDIA LIMITED
(A Government of India Enterprises)
PO : Duliajan – 786602
Assam (India)
TELEPHONE NO: (91-374) 2808719
FAX NO: (91-374) 2800533
Email: ranjanbarman@oilindia.in ; erp_mm@oilindia.in

FORWARDING LETTER

Tender No. : **SDI3392P17 DT: 20.12.2016**

Tender Fee : **Rs 1,000.00**

Bid Security Amount : **Applicable**

Bidding Type : **SINGLE STAGE COMPOSITE BID SYSTEM**

Bid Closing on : **As mentioned in the e-portal**

Bid Opening on : **-do-**

Performance Security : **Applicable**

Integrity Pact : **Not Applicable**

OIL invites Bids for **PROCUREMENT, INSTALLATION & COMMISSIONING OF SKID MOUNTED LIGHTING FEEDER HUT – QTY = 02 NOS** through its e-Procurement site under **SINGLE STAGE COMPOSITE BID SYSTEM**. The bidding documents and other terms and conditions are available at Booklet No. MM/LOCAL/E-01/2005 for E-Procurement LCB Tenders. The prescribed Bid Forms for submission of bids are available in the Technical RFx -> External Area - > Tender Documents

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

The tender will be governed by:

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

b) OIL's office timings are as below:

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

Vendors should contact OIL officials at above timings only.

c) OIL Bank Details :

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

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

e) Technical specifications and Quantity as per **Annexure – 1A**.

f) The prescribed Bid Forms for submission of bids are available in the Technical RFx-> External Area - > Tender Documents.

g) Amendments to the NIT after its issue will be published on OIL's website only. Revision, clarification, addendum, corrigendum, time extension etc. to the tender will be hosted on OIL website only. No separate notification shall be issued in the press. Prospective bidders are requested to visit website regularly to keep themselves updated.

h) Any sum of money due and payable to the contractor (including Security Deposit refundable to them) under this or any other contract may be appropriated by Oil India Limited and set-off against any claim of Oil India Limited (or such other person or persons contracting through Oil India Limited) for payment of sum of money arising out of this contract or under any other contract made by the contractor with Oil India Limited (or such other person or persons contracting through Oil India Limited).

i) Bidder are advised to fill up the Technical bid check list (**Annexure EEE**) and Response sheet (**Annexure FFF**) given in MS excel format in Technical RFx -> External Area - > Tender Documents. The above filled up document to be uploaded in the Technical RFX Response.

Special Notes:

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

Vendors who do not have OIL's User ID & password, may generate User ID & password online by the Vendor by using the link for supplier enlistment given in OIL's e-tender portal and then pay Tender Fee on-line through OIL's electronic Payment Gateway upto one week prior to the Bid closing date (or as amended in e-portal).
Alternatively application showing full address/email address with Tender Fee (Non-refundable) of Rs. 1,000.00 in the form of crossed "Payee Account only "Bank Draft/Bankers' Cheque drawn by Bank and valid for 90 days from the date of issue of the same or in the form of Indian Postal Orders payable to the OIL is to be sent to DGM-Materials, Oil India Limited, P.O. Duliajan, Assam-786602. Application shall be accepted only upto one week prior to the Bid closing date (or as amended in e-portal). The envelope containing the application for participation should clearly indicate "REQUEST FOR ISSUE OF USER ID AND PASSWORD FOR E TENDER NO …" for easy identification and timely issue of user ID and password. On receipt of requisite tender fee, USER_ID and initial PASSWORD will be communicated to the bidder (through e-mail) and will be allowed to participate in the tender through OIL's e- Procurement portal. No physical tender documents will be provided. Details of NIT can be viewed using "Guest Login" provided in the e-Procurement portal. The link to e-Procurement portal has been also provided through OIL's web site www.oil-india.com.

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

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-> User - > Technical Bid only.

3.0 Please note that all tender forms and supporting documents are to be submitted through OIL's e-Procurement site only except following documents which are to be submitted manually in sealed envelope super scribed with **Tender no.** and **Due date** to **DGM- Materials, Materials Department, Oil India Limited, Duliajan - 786602, Assam** on or before the Bid Closing Date and Time mentioned in the Tender.

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

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

4.0 Benefits to Micro & Small Enterprises (MSEs) as per OIL's Public Procurement Policy for Micro and Small Enterprises (MSEs) shall be given. Bidders are requested to go

through ANNEXURE – I of MM/LOCAL/E-01/2005 for E-Procurement of Indigenous Tenders for more details. MSE bidders are exempted from submission of Tender Fees and Bid Security/Earnest Money provided they are registered for the items they intend to quote.

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.

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

Yours Faithfully

Sd-

(R BARMAN)
SMM(IP)
FOR DGM-MATERIALS

Annexure - CCC

Tender No & Date: SDI3392P17 DT: 20.12.2016

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

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

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

Criteria	**Complied / Not Complied. (Remarks if any)**
1.0 BID REJECTION CRITERIA (BRC): 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. **A) TECHNICAL:** **TECHNICAL CRITERIA:** 1.0 Bidder should have experience of successfully executing similar single order of value Rs.18,67,000.00 (Rupees Eighteen Lakhs Sixty Seven Thousand only) or more in preceding 5 (five) years as on bid closing date. Similar order means, manufacturing and successfully supplying of any one or more systems mentioned under. Bidder should be a manufacturer of any one of the following systems: - Steel Skid Mounted Lighting Panel or - Steel Skid Mounted Feeder Hut or - Steel Skid Mounted Power Control Rooms or - Steel Skid Mounted Motor Control Center Panels Bidder should have credentials of successfully supplying the same in the past from the bidder's manufacturing facility. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer. **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 18.67 Lakhs**

c) Net Worth of the firm should be Positive for preceding financial / Accounting year.

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

Note: 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-II.

OR

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

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.75,000.00** in OIL's prescribed format as Bank Guarantee or a Cashier's cheque or Demand Draft in favour of OIL. The Bid Security may be submitted manually in sealed envelope superscribed with Tender no. and Bid Closing date to Head Materials, Materials Department, Oil India Limited, Duliajan- 786602, Assam on or before the Bid Closing Date and Time mentioned in the Tender. **The Bank Guarantee towards Bid Security shall be valid for 6 months from Bid closing date. (i.e. upto 02.08.2017). Cashier's cheque or Demand Draft shall be valid for minimum 90 days or as per RBI's guidelines, drawn on "Oil India Limited" and payable at Duliajan, Assam**

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

If bid security in ORIGINAL of above mentioned Amount and Validity is not received or paid online within bid closing date and time, the bid submitted through electronic form will be rejected without any further consideration.

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

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

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

iv) Performance Security:

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

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

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

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

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

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

v) The prices offered will have to be firm through delivery and not subject to variation on any account. A bid submitted with an adjustable price will be treated as non-responsive and rejected.

vi) Bids received after the bid closing date and time will be rejected. Similarly, modifications to bids received after the bid closing date & time will not be considered.

vii) All the Bids must be Digitally Signed using "Class 3" digital certificate with Organisation's name *(e-commerce application)* as per Indian IT Act obtained from the licensed Certifying Authorities operating under the Root Certifying Authority of India (RCAI), Controller of Certifying Authorities (CCA) of India. The bid signed using other than "Class 3 with Organisation's Name" digital certificate, will be rejected.

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

ix). Integrity Pact :

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

x). A bid shall be rejected straightway if it does not conform to any one of the following clauses:
(a) Validity of bid shorter than the validity indicated in the Tender.
(b) Original Bid Security not received within the stipulated date & time mentioned in the Tender.
(c) Bid Security with (i) Validity shorter than the validity indicated in Tender and/or (ii) Bid Security amount lesser than the amount indicated in the Tender.
(d) In case the Party refuses to sign Integrity Pact.
(e) Annual Turnover of a bidder lower than the Annual turnover mentioned in the Tender.
(f) Delivery: Maximum acceptable delivery of the material is 09 months from the placement of order.
INSTALLATION & COMMISSIONING: Within 03 months after receipt of clearance of site.

2.0 BID EVALUATION CRITERIA (BEC)

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

A) TECHNICAL: 1. The manufactured product should be strictly as per OIL's tender specification. **B) COMMERCIAL:** i). To evaluate the inter-se-ranking of the offers, Assam Entry Tax on purchase value will be loaded as per prevailing Govt. of Assam guidelines as applicable on bid closing date. Bidders may check this with the appropriate authority while submitting their offer. ii) A job executed by a bidder for its own organization / subsidiary cannot be considered as experience for the purpose of meeting BEC. iii) To ascertain the substantial responsiveness of the bid OIL reserves the right to ask the bidder for clarification in respect of clauses covered under BRC also and such clarifications fulfilling the BRC clauses in toto must be received on or before the deadline given by the company, failing which the offer will be summarily rejected.	

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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ANNEXURE-IA

TECHNICAL SPECIFICATIONS WITH QUANTITY

Tender No & Date: SDI3392P17 DT: 20.12.2016

	Complied / Not Complied. (Remarks if any)
ITEM NO. 10 **PROCUREMENT, INSTALLATION & COMMISSIONING OF SKID MOUNTED LIGHTING FEEDER HUT HAVING TRANSFORMER CAPACITY 1 X 100KVA FOR 2000HP VFD RIGs AT WELL SITE AS PER SPECIFICATION. QUANTITY –ONE NUMBERS** **ANNEXURE-I.** SCOPE OF WORK: The scope of work covers manufacture, supply, installation & commissioning of Oil Field Type Skid Mounted Lighting Feeder Hut having specified external dimensions complete with 1X100 KVA transformer, incoming panel, Socket board, switches, ELCBs, electric fittings, other equipments to be provided in the feeder hut for single phase (230 V ph-n, 50 Hz) and three phase (415 V , 4 wire, 50 Hz) power supply to bunk houses, area lighting, external socket boards etc at drilling well site. The Lighting Feeder Hut shall be used as portable module and should be transportable to deploy at any place. The scope of work covers all the points stated under various heads below. The Lighting Feeder Hut should be provided with suitable lifting and handling facility for the container handling. Quantity - Two Numbers. 1. GENERAL DESIGN & CONSTRUCTION 1.1 Main shell: The main fabrication of the structural framework should be of integral and welded type to comprise of the bottom frame, overall framework, internal and external cladding and other peripherals like Sloping self draining roof, socket board, desired doors, canopy, exhaust fan etc. The main corner vertical support post should be strong enough for handling and transportation of the hut. The corner casting to be provided is similar to the corner castings normally found in marine freight containers. The entire welding process is to be executed by certified welder using ISI quality electrode. The hut should be strong enough to withstand any kind of stress vibration etc. during handling (by crane) and transportation. 1.2 Indicative Dimensions: The indicative dimension of the Lighting Feeder Hut are as follows : Floor Length : 3000 mm, Floor Width : 2000 mm , Height (From floor to Roof Top) : 2200 mm. Indicative weight :12 Ton. 1.3 Skid:	

The frame of the Lighting Feeder Hut is to be mounted on the skid consisting of 2 (two) nos longitudinal beam of ISMB 200X100 mm hot rolled "I" section . At the end portion of the #I" section structure on both the sides, steel pipe of size 142mm NBX 9.5 mm wall thickness should be inserted and welded properly. The "I" section beam should be placed at equal distance with respect to the width of the floor and connected with same size beam at 2000 mm apart (or at equal distance from centre of the longitudinal beam). This "I" section and the MS pipe on both ends should be welded properly to form a robust skid structure. The skid should be made in such a way that no foundation is needed for the placement of the Feeder Hut. Four numbers of body earthing points should be provided at each corner of the hut.

1.4 Flooring

The skid frame is to be covered completely with 6 mm thick checkered MS plate which is to be welded to the skid frame throughout. There should be proper finish of the welding job so that no sharp edge/ corner throughout the periphery. The bottom should be painted with bituminous paint. Extra support for this plate may be provided wherever necessary. The floor should be strong enough to bear the heavy load of 100 KVA dry type transformer and other accessories. Transportation point should be considered as the unit shall be transported with all equipments and accessories installed in it.

1.5 Side and end Walls:

The side wall of the hut should be of MS sheets of 3 mm thick and should be welded to the bottom MS channel frame, corner posts, top frame and roof frame. Walls should be provided with adequately pressed reinforce section from inside for additional strength. At one end there should be socket board and switch board. At one side there should be one door for entry and exit to the Lighting Hut. Two bolted type doors should be provided at each side of the lighting hut for entry and exit of the 100 KVA transformer with suitable water ingress protection from rain etc. Suitably placed exhaust fan should be provided for free air circulation inside the Lighting Hut. Suitable opening (louver type) at selected locations of the side wall should be provided for free air flow.

1.6 Doors & Canopy

One main door (size H=1800 mm, W= 780 mm), flush mounted should be provided at one side of the hut as shown in the indicative diagram for entry & exit to the Lighting Feeder Hut.

At one end of the hut there shall be a socket board and switch board. Door should be provided for switch board and socket board individually (double palla). Suitable canopy(foldable, two numbers) should be provided for rain protection of the socket board and switch board as shown in the indicative diagram.

All doors should be double palla lockable arrangement with L-drop (at least two numbers in each door) and fitted with suitable rubber/neoprene gasket to prevent water ingress during rain etc.

Additionally, two bolted type doors should be provided at each side of the lighting hut for entry and exit of the 100 KVA transformer with suitable water ingress protection from rain etc.

1.7 Roof

The roof should be of sloping type from the centre forward the walls for efficient drain of water. The roof should be made of 3 mm thick MS sheets as per IS and is provided with adequately pressed reinforced sections from inside for additional strength and this should be able to comfortably resist loads up to 20 lbs/sq feet. All the structural steel used should be of standard quality as per IS specification and all steel components / sections, machine pressed for rigidity to optimize strength to weight ratio. The roof should be extended at both ends which is equal to the extended portion of the skid floor.

1.8 Pre-treatment & Painting:
All steel surfaces should be sand or shot blasted for degreasing and de-rusting followed by pre-treatment with anticorrosive chemicals including phosphating. Coating should be applied with red-oxide, zinc chromate, primer conforming to IS 2074. The internal and external surface of the hut should be finally painted with two coats of corrosion resistant rubbers chlorinated marine paints or polyurethane paints.

The under frame should be painted with bituminous paint of reputed make as per IS. The colour shade and grade will be decided at the time of inspection by representatives of OIL and the highest level of aesthetic should be maintained and necessary marking/ logo should be provided as per the advice of OIL.

1.9 Layout of the Lighting Hut:

The bunk Lighting hut shall be suitably designed to accommodate the following equipments :
i) 1 X 100 KVA Transformer – One number
ii) Incomer panel of size (indicative) H= 1800 mm, W= 600 mm and depth D= 500 mm
iii) Socket Boards & switch board with suitably rated bus bars at one end with individual door and foldable canopy.
iv) Other accessories like exhaust fan (one number), LED light (two numbers inside & two numbers out side), switch board etc.
An indicative diagram of the layout is attached herewith in Annexure-II

1.10 Specifications of Steel (Indicative)

(i) Steel - Load bearing members IS 1079 / grade St 42 / JIS G 3125 SPA-H (SAIL/TATA/ESSAR)

(ii) Structural Steel I Beams / Rolled sections IS 2062 (SAIL/TATA/ESSAR)

(iii) Side, End walls & Roof panels Corten-A / JIS G3125 SPA-H /SAILCOR/IRSM 41

Documentary evidence regarding the purchase of the above material is to be provided to if requested by OIL.

1.11 Name Plate & labeling of the hut:

The writing of the name plate on the Lighting Hut should be as per following:
a) "Lighting Feeder Hut", "Oil India Ltd" with OIL logo & PO number should be written on a proper plate and should be fixed on either sides of the hut. The writings should be of proper size and good contrasting color so that it is visible from distance.
b) Weight & dimensions of the hut should be written in two diagonally opposite corners of the hut near the lifting point.

c) Lifting point should be properly marked.

1.12 Welding:

The containerized Lighting hut should be of welded steel construction using the latest method of MIG using CO2 argon as shield gas. All the external welding should be continuous, uniform and of full penetration.

2.0 Electricals:

2.1 Dry Type Transformer 1 x 100 KVA: Quantity one for each hut

The transformer shall be used to supply the non-hazardous, general rig area lighting, crew camp supply and auxiliary loads which need a 240 V phase-to-neutral and 415 v 3 phase 4 wire connection. Neutral of the isolation transformer shall be grounded solidly. Transformer should be wheel mounted properly fixed on the floor inside the lighting hut.
Capacity- 100 kVA, ,continuous rating
Dry Type, copper wound, air cooled
Voltage - 415/415 volts, Dyn11, neutral available for connection.
Frequency - 50 Hz
Phases - 3 phase
Impedance - 4%
Vector Group - Dyn11, Star connected secondary, neutral available for connection
Enclosure - IP23 type, with provision for natural circulation of cooling air.
Ambient temperature - 55 Deg C
Temperature rise above ambient - 90 Deg C
Insulation - Class F
Rated power freq. withstand - 3 kV (rms) or better
Standard - Indian standard IS: 11171

Primary and secondary side terminations:

The termination of the Transformer primary and secondary right from Socket board to busbar, panel etc should be done with 3 core, 50 mm2 cable. Neutral connection on secondary side shall also be of 2 Nos 50 mm2 cable (1core) (one for grounding and other for neutral circuits). Suitable cover should be used for covering the cables to avoid physical damage.

Stand-off copper termination (termination using copper flats) / Stud type connections as per standard design of manufacturer shall be provided. All cable lugs shall be terminated using removable nut and bolts.

2 2 Electrical Schematic diagram (Indicative)

The indicative electrical schematic diagram of the lighting feeder hut is shown in annexure –II in the attachment. Bidder should finalize the electrical schematic based on this and get it approved from OIL before manufacture. The approved schematic should be drawn in stainless steel plate (two numbers) and should be fixed in two places (one near socket board and one at incomer panel door inside the hut or suggested by OIL representative).

2.3 Incomer Panel: Quantity one for each hut

An incomer panel made from MS plate of 2 mm thick, floor mounting, cubicle type, dust & vermin proof, front open hinged door should be suitably fixed inside the hut for accommodating various components like MCCBs, Change Over Switch (COS), Busbars, MCBs, Multi Function Meter (MFM), volt meter, ammeter etc. Proper ventilation should be provided for free air movement. The panel should be designed and manufactured as per IS-8623. The metal surface of the panel should be given seven tanks anti corrosion treatment and then powder coated. The panel should be able to withstand the stress and vibration during transportation of the hut. Indicative layout for the panel is shown in annexure –II. Following points/ equipments to be taken in to account/ to be provided for the panel.

i) MCCBs : Should be mounted inside the panel. Suitable opening should be made at the front door for the operating leaver or handle.
ii) Change over switch (manual) for selection of incoming source.
iii) Copper Busbars for 3 phases and Neutral with suitable insulating support.
iv) MCBs for LED lights, space heaters & exhaust fan.
v) Two distinct earthing point on the panel for body earthing.
vi) Suitable rating space heater inside the panel
vii) The wiring cable shall be PVC insulated, 1100 V grade, suitable current rating, fire-retardant, multi-stranded flexible copper conductor and ISI marked.
viii) All wires shall be colour coded as Red/Yellow/Blue for Phase, Black for neutral and Green for earth.
ix) Metering as indicated in the "Metering" Clause.
x) Any other equipments that may require to complete the Feeder Hut.

2.4 Main Socket Board & Switch Board :

The main socket board & switch board shall be fixed at one end of the lighting hut as shown in the Lighting hut layout diagram in annexure –II. These boards shall have front open double palla doors with rain protection canopy (foldable)as mentioned above. All the sockets should be BCH type or as indicated and rating should be as shown in schematic diagrams. The switch board shall be adjacent to the socket board having suitable rating individual MCCB with RCD for each socket. For 125A incomer sockets MCCBs with RCDs shall be at Incomer Panel inside the hut. The rating of plugs are as follows :
i) 125 A, 5 pin incomer plug &socket : 03 nos (one from ACPCR and other from 63KVA genset, one spare)
ii) 63 A, 5 pin outgoing feeder plug & socket : 03 nos
iii) 32 A, 5 pin outgoing feeder plug & socket : 06 nos
iv) 16 A, 5 pin outgoing feeder plug & socket : 09 nos

All sockets shall be 3 phase 4 wire connection with proper load balance. Suitably rated copper tined bus-bar (3 ph, 4 wire, 600A) should be used for connection of outgoing sockets.

2.5 Drawings and documents :
Bidder should submit the offer as per attached format clearly specifying the compliance/ non compliance/ deviation against each clause of the NIT along with other necessary documents. Following drawings and documents should also be submitted at various stages.
I) Drawings & documents to be supplied along with the bid for the proposed system one set:
i) Skid and housing diagrams showing various dimensions.
ii) Layout diagram of the Lighting hut showing various items/equipments.
iii) Electrical Schematic diagram (Power Flow) showing various equipments and ratings.
iv) Technical details of main transformer indicating make and model offered.

v) Socket board & Switch board layout diagram.
vi) Electrical wiring diagram (schematic) for light, exhaust fan etc.

II) Drawings & documents to be supplied for Oil India's approval before manufacture (one set):
i) Final Skid and housing diagrams showing various dimensions.
ii) Layout diagram of the transformer hut showing various items/equipments.
iii) Electrical Schematic diagram showing various equipments and ratings.
iv) Bill of Materials (BOM) pertaining to electrical systems indicating part number, specification etc .
v) Socket board & switch board layout diagram.
vi) Electrical wiring diagram (schematic) for light, exhaust fan etc with BOM.

III) Drawings to be supplied after successful commissioning (as built):
i) Successful bidder shall provide 6 sets of all the approved drawings suitably cover bounded after successful commissioning, incorporating all changes made during commissioning.
ii) Final Bill of materials pertaining to electrical scope of supply indicating part number, specification etc .
iii) Transformer technical details.

2.6 Metering

Following meters to be provided with the each Lighting Feeder Hut.
i) One digital multifunction meter (MFM) should be provided to measure various electrical parameters of 100 KVA transformer. This digital MFM should be mounted in the panel in side the hut. The MFM should able to measure voltage, current, KWH, KW, power factor, cumulative KWH etc. and should be connected to the secondary side of the transformer.
ii) One analog voltmeter to be provided at the 100 KVA transformer secondary to display the phase to phase voltage through a selector switch.
iii) One analog ammeter to be provided at the 100 KVA transformer secondary to display current in each phase with the help of selector switch.

2.7 Electrical Wirings:

a) Metallic conduit to be used wherever required for wiring of various electrical items inside the Lighting hut.

b) Conduit size and no. of wires in conduit shall be as per IS. Corners shall be rounded elbow type for ease of insertion of wires.

c) The wiring cable shall be PVC insulated, 1100 V grade, FRLS, BIS compliant multi-stranded flexible copper conductor.

d) All wires shall be colour coded as Red for Phase, Black for neutral and Green for earth. All wire ends in DB, Main Switch and Socket outlets shall have copper lugs . Wiring of the Lighting hut shall be done as per IS:732(1989).

e) All points shall have individual switches and independent neutral wire. All light and fan points shall be suitably distributed in the switch boards with individual switches.

f) Earth points for socket outlets, fans etc. shall be individually wired with insulated wires to switchboards. No earth connection shall be made directly to any point of the metallic shell of the Lighting hut.

2.8 Notes:

i) The job shall start only after approval of drawings etc. from OIL.
ii) Entire electrical installation work has to be done by licensed electrician as per CEA Regulations and NEC codes.
iii) Test report of the entire electrical work as per CEA Regulations will have to be submitted to OIL after completion of the job.
iv) The electrical work shall be treated as complete once installation, testing & commissioning of electrical works are accepted by Head-Electrical and submission of valid test report for electrical works, #as installed# drawings & list of electrical items used, spares for lighting system by the party.

2.9 Indicative makes of Electrical Items:

The electrical items used should have a proven track record of good performance. The indicative makes of electrical items are as follows:
i) Transformer : BHEL/CG/BB/Siemens/AE/Arya/Quantum
ii) Plug & socket : BCH, Appleton, Pyle National, Amphenol.
iii) MCCB, MCB & RCD: LeGrand / Havells / Merlin Gerin / Siemens/Schneider.
iv) LED Lights : Philips / Compton Greaves / GE /Bajaj/ Havells/Syska.
v) Exhaust fan: Usha / Crompton Greaves / Bajaj / Orient.
vi) Wires & cables: Finolex / Havells.
vii) Digital Multifunction Meter : Conzerv/ L&T/EL Measure /Meco/ Rishabh
viii) Analog ammeter : AE/ Rishabh/Meco
ix) Analog voltmeter: AE/ Rishabh/Meco

2.10 Mandatory Spares :
The following mandatory spares have to be supplied along with the lighting huts. The quantities shown are the total quantity for two numbers of huts. Cost of the spares should be included in main items. However, detailed price should be mentioned separately in " Notes & Attachment" under price schedule.

i) 16 A, 5 pin power plug sockets – 6 nos
ii) 32 A, 5 pin power plug sockets – 4 nos
iii) 63 A , 5 pin power plug sockets - 2 nos
iv) 125 A, 5 pin power plug sockets – 2 nos.
v) 200 A MCCB with RCD – 2 nos
vi) 200 A Change Over Switch (COS) (3 ph 4 wire) – 1 no.

Bidder should quote for the above quantities of mandatory spares along with the bid. Make of the spares should be same as make of the items use in the hut.

3.0 Warranty & Guarantee:
The Lighting hut including painting & all the bought out items, should have minimum onsite warranty of one year from the date of installation or 18 months from the date of receiving whichever is earlier. Bidder should confirm it along with quotation. The offer, taking exception to this will be rejected.
This guarantee shall cover all items of the package, including (but not limited to) the skid, housing, all the internal components and any spares supplied. Any repairs / replacements required during this Warrantee period shall be carried out by the successful bidder, on site, at no

cost to Oil India. 3.1 Inspection: a) Stage Inspection The stage inspection of the packages of Lighting hut shall be inspected at Manufacturer works by OIL representatives during construction of the skid and housing. b) Pre-dispatch inspection Final pre-dispatch inspection of the packages shall be carried out by OIL representatives at manufacturer's works. The complete packages shall be tested according to manufacturer's standard test procedures, to demonstrate conformance with all required specifications. Representatives from Oil India shall witness these tests, and record results thereof. Manufacturer should give inspection calls to Oil India at least 20 days in advance. All test reports, certificates; approvals etc. pertaining to the system should be furnished during final pre-dispatch inspection. This to be noted that, such inspection shall not relieve the supplier of his responsibility to ensure that, the equipments/systems supplied are free from all manufacturing and other defects and conforms to correct specifications & performances. However, inspection by OIL's representative will remain at its discretion. Boarding, lodging, transportation cost of such inspection for the OIL representative shall be borne by OIL. 3.2 Packing & Dispatch The completed units shall be dispatched to Oil India's designated site at Duliajan, Assam, India. The units shall be sent from manufacturer's works fully fitted, and ready to be commissioned at well sites. The units should be packed suitably to avoid ingress of rain, moisture and dust; and to withstand the rigorous of travel, as well as storage before final commissioning. 3.3 Commissioning Successful bidder will be responsible for installation, and commissioning of the complete packages at well sites of Assam or at OIL's facility at Duliajan, Assam. The expected date of commissioning shall be informed by OIL after the packages are transported to Duliajan, Assam. Bidder must quote separately for installation & commissioning charges if any. OIL shall transport the packages to the various well sites from Duliajan (receiving site) for commissioning.	
ITEM NO. 20 **PROCUREMENT, INSTALLATION & COMMISSIONING OF SKID MOUNTED LIGHTING FEEDER HUT HAVING TRANSFORMER CAPACITY 1 X 100KVA FOR 2000HP VFD RIGs AT WELL SITE AS PER SPECIFICATION. QUANTITY –ONE NUMBERS** **SAME AS ITEM NO. 10**	
ITEM NO. 30 **INSTALLATION AND COMMISSIONING - QTY = 01 AU(FOR BOTH THE ITEM)**	

SPECIAL NOTES:

1.0 Bidder should be a manufacturer of any one of the following systems:
- Steel Skid Mounted Lighting Panel or
- Steel Skid Mounted Feeder Hut or

- Steel Skid Mounted Power Control Rooms or
- Steel Skid Mounted Motor Control Center Panels

Bidder should have credentials of successfully supplying the same in the past from the bidder's manufacturing facility. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer.

2.0 Bidder should have manufactured at least one similar system successfully in last 5 (five) years as on Original bid closing date. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer. Similar system means, manufacturing and successfully supplying of any one or more systems mentioned in clause no 1.0 above/ Lighting panels/ Motor Control Centre panels.

GENERAL NOTE:-

1.0 The skid mounted lighting feeder hut to be constructed as per the final drawing submitted (based on tentative drawing enclosed herewith) and approved by OIL.
2.0 All other details are given in Annexure-I.
3.0 Terms & condition as per Annexure-I, II & Notes in the tender.
4.0 Delivery being the essence of the tender, bidder should indicate their best delivery schedule.

5.0 At the discretion of Oil India Ltd, the the lighting feeder hut should be offered for stage inspection to the representative of Oil India Ltd at the following stages of fabrication.

a) At any time during fabrication.
b) On completion of the jobs before dispatching the complete feeder hut.

6.0 Purchase order no, weight & dimension etc should be well written on each hut as indicated in technical specification.

7.0 User Department's Name and OIL logo should be written on each hut which will be confirmed during inspection.

8.0 Minor change in the specification may be done during the course of fabrication of bunk house with prior approval from OIL.

9.0 All the electrical fittings should be tested by competent persons holding valid electrical license. Necessary electrical test certificate duly signed by competent persons holding valid electrical license and schematic diagram of wiring should be submitted along with hut. Bidder to confirm the same while quoting.

10.0 Bidder should forward catalogue, drawing (with specification) of all items along with the quotation wherever necessary.

11.0 Bidder must forward along with the quotation the detailed drawings of as indicated in the technical specification.

12.0 WARRANTY/GUARANTEE: The Lighting hut including painting and all the bought out items, should have minimum onsite warranty of one year from the date of installation or 18 months from the date of receiving whichever is earlier. Bidder should confirm it along with quotation. The offer, taking exception to this will be rejected.

This guarantee shall cover all items of the package, including (but not limited to) the skid, housing, all the internal components and any spares supplied. Any repairs / replacements required during this Warrantee period shall be carried out by the successful bidder, on site, at no cost to Oil India.

13.0 Bidder must confirm/ clarify all the clauses of annexure-I, annexure-II & other notes point by point and the offer should be forwarded along with price break up of each and every item. Offer without these will be treated as cancel.

14.0 Bidders are advised to ensure full compliance with all the requirements and to confirm the same in their offer, to avoid any post tender clarifications.

15.0 Unsolicited post tender clarifications / modifications will lead to the rejection of the bid. However, in case any clarifications sought by the Company, the bidder should submit the replies restricting only to the clarification sought and within the specified timeframe.

16.0 Any variation or non-conformity to the tender specification should be clearly mentioned in the Pro-forma given in the Tender. Deviation taken elsewhere in the offer will not be given cognizance.

17.0 All the items used for manufacturing the bunk house including its accessories furniture should be new, unused and free from any kind of damage.

18.0 All the items will be procured from the same source.

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 II – Indicative Diagrams

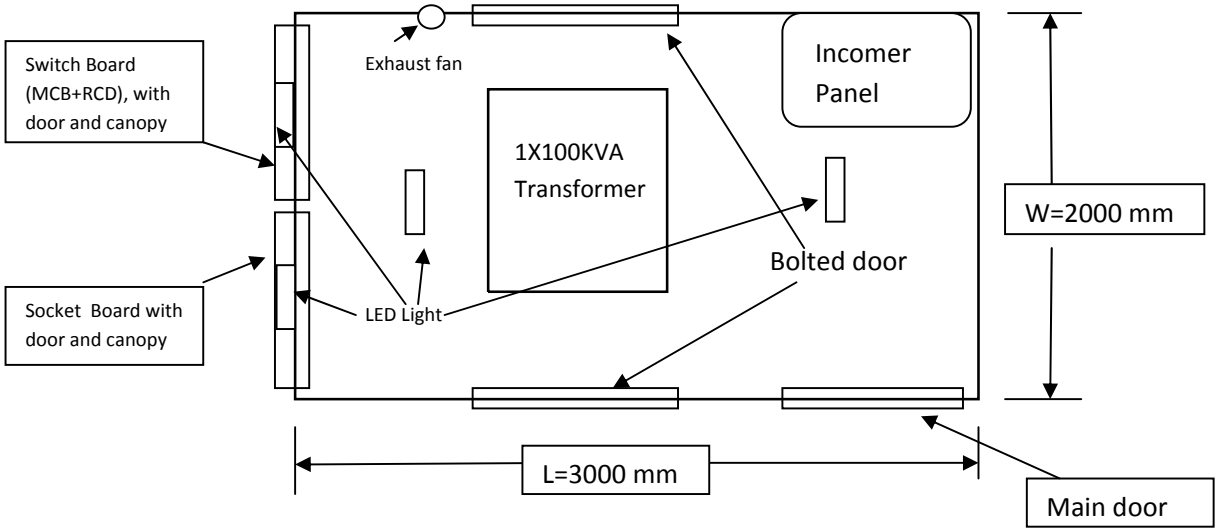


Fig. 1. Indicative Lay out diagram of Lighting Feeder hut

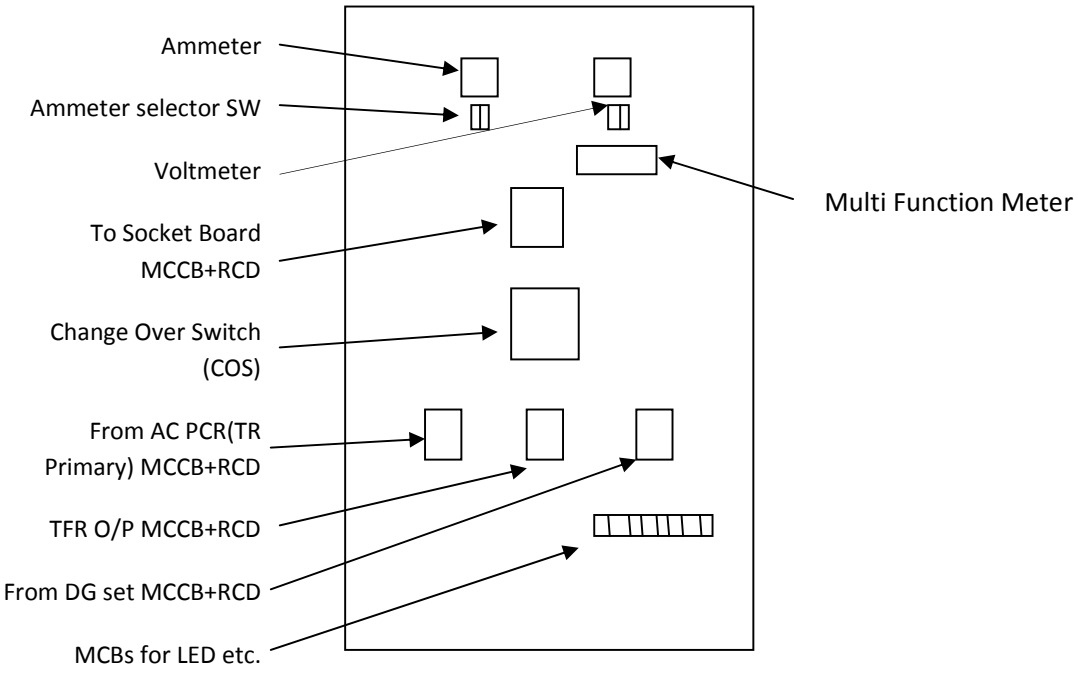
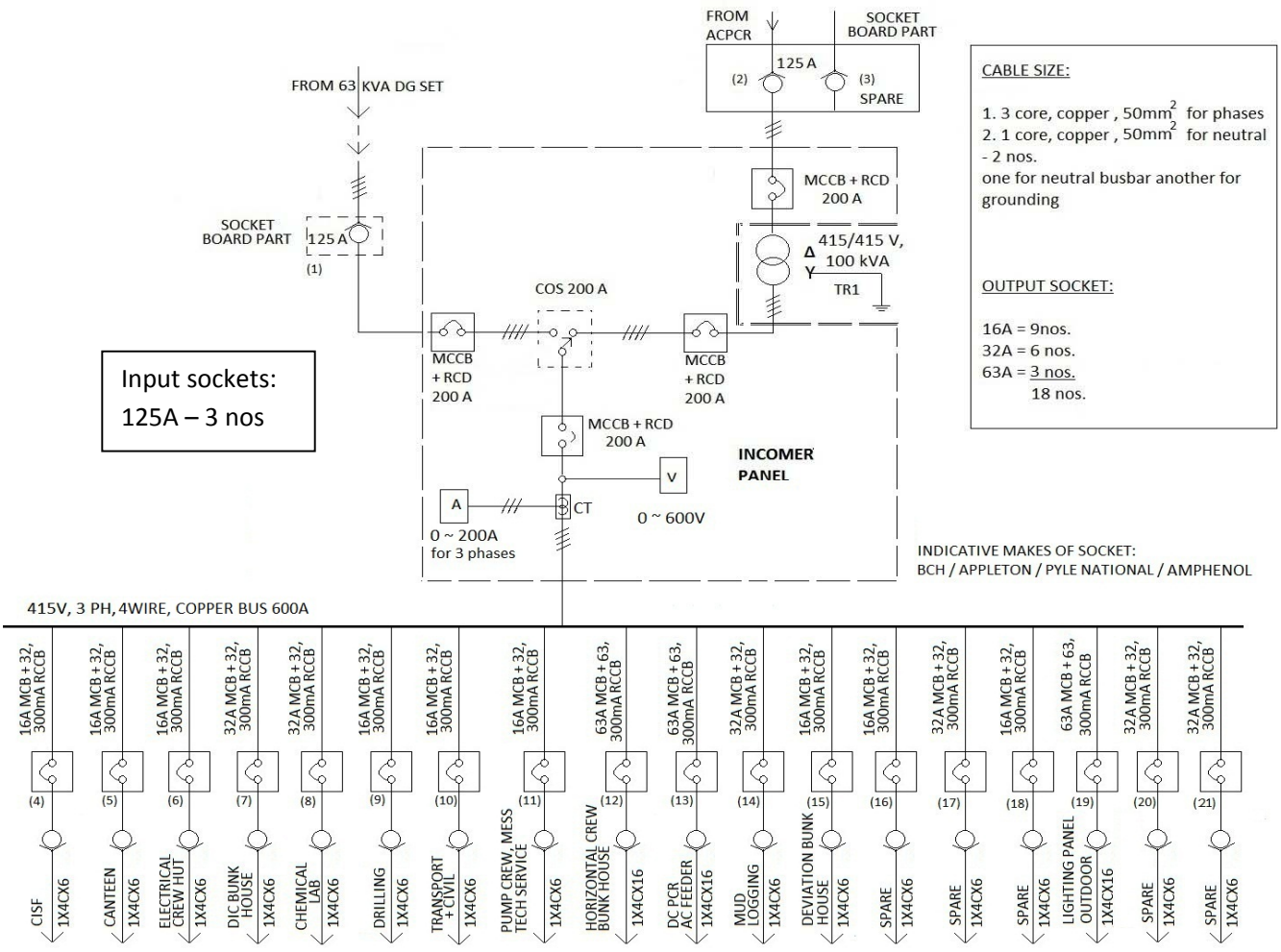


Fig. 2. Lay out diagram of Incomer Panel

SCHEMATIC DIAGRAM FOR 100 kVA SKID MOUNTED LIGHTING HUT



Input sockets:
125A – 3 nos

CABLE SIZE:

1. 3 core, copper , 50mm^2 for phases
2. 1 core, copper , 50mm^2 for neutral - 2 nos.
one for neutral busbar another for grounding

OUTPUT SOCKET:

16A = 9nos.
32A = 6 nos.
63A = 3 nos.
18 nos.

INDICATIVE MAKES OF SOCKET:
BCH / APPLETON / PYLE NATIONAL / AMPHENOL

Fig3 :Indicative Electrical Schematic Diagram

Fig4: Photos of existing lighting hut

Bidder,s response sheet:

ITEM DESCRIPTION: SKID MOUNTED LIGHTING FEEDER HUT HAVING TRANSFORMER CAPACITY 1 X 100KVA FOR 2000HP VFD RIGs AT WELL SITE AS PER SPECIFICATION GIVEN. QUANTITY – TWO NUMBERS

Sl No	Clause No of Tender Document/BEC /BRC, Technical specification/Scope of work, Special Note.	Description	Bidders remarks Complied/Not Complied/Deviation	Bidder to indicate relevant page no of their bid to support the remarks/compliance
1	1.0	Bidder should be a manufacturer of any one of the following systems: - Steel Skid Mounted Lighting Panel or - Steel Skid Mounted Feeder Hut or - Steel Skid Mounted Power Control Rooms or - Steel Skid Mounted Motor Control Center Panels Bidder should have credentials of successfully supplying the same in the past from the bidder's manufacturing facility. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer.		
2	2.0	Bidder should have manufactured at least one similar system successfully in last 5 (five) years as on bid closing date. Necessary evidence in the form of order copies / proof of supplies / acceptance / performance certificates should be submitted along with the offer. Similar system means, manufacturing and successfully supplying of any one or more systems mentioned in BEC clause no 1.0 above/ Lighting panels/ Motor Control Centre panels.		

3	3.0	Bidder should have experience of successfully executing similar single order of value Rs.18,67,000.00 (Rupees Eighteen Lakhs Sixty Seven Thousand only) or more in preceding 5 (five) years as on bid closing date. Similar order means, manufacturing and successfully supplying of any one or more systems mentioned in BEC clause no 1.0 above/ Lighting panels/ Motor Control Centre panels.		
4	SCOPE OF WORK:	The scope of work covers manufacture, supply, installation & commissioning of Oil Field Type Skid Mounted Lighting Feeder Hut having specified external dimensions complete with 1X100 KVA transformer, incoming panel, Socket board, switches, ELCBs, electric fittings, other equipments to be provided in the feeder hut for single phase (230 V ph-n, 50 Hz) and three phase (415 V , 4 wire, 50 Hz) power supply to bunk houses, area lighting, external socket boards etc at drilling well site. The Lighting Feeder Hut shall be used as portable module and should be transportable to deploy at any place. The scope of work covers all the points stated under various heads below. The Lighting Feeder Hut should be provided with suitable lifting and handling facility for the container handling. Quantity - Two Numbers.		
5	**1.1 Main shell:**	The main fabrication of the structural framework should be of integral and welded type to comprise of the bottom frame, overall framework, internal and external cladding and other peripherals like Sloping self draining roof, socket board, desired doors, canopy, exhaust fan etc. The main corner vertical support post should be strong enough for		

		handling and transportation of the hut. The corner casting to be provided is similar to the corner castings normally found in marine freight containers. The entire welding process is to be executed by certified welder using ISI quality electrode. The hut should be strong enough to withstand any kind of stress vibration etc. during handling (by crane) and transportation.		
6	**1.2 Indicative Dimensions:**	The indicative dimension of the Lighting Feeder Hut are as follows : Floor Length : 3000 mm, Floor Width : 2000 mm , Height (From floor to Roof Top) : 2200 mm. Indicative weight :12 Ton.		
7	**1.3 Skid:**	The frame of the Lighting Feeder Hut is to be mounted on the skid consisting of 2 (two) nos longitudinal beam of ISMB 200X100 mm hot rolled "I" section . At the end portion of the #I" section structure on both the sides, steel pipe of size 142mm NBX 9.5 mm wall thickness should be inserted and welded properly. The "I" section beam should be placed at equal distance with respect to the width of the floor and connected with same size beam at 2000 mm apart (or at equal distance from centre of the longitudinal beam). This “I” section and the MS pipe on both ends should be welded properly to form a robust skid structure. The skid should be made in such a way that no foundation is needed for the placement of the Feeder Hut. Four numbers of body earthing points should be provided at each corner of the hut.		
8	**1.4 Flooring**	The skid frame is to be covered completely with 6 mm thick checkered MS plate which is to be welded to the skid frame throughout. There should be proper finish of the welding job so that no sharp edge/ corner throughout the periphery. The bottom should be painted with bituminous paint.		

		Extra support for this plate may be provided wherever necessary. The floor should be strong enough to bear the heavy load of 100 KVA dry type transformer and other accessories. Transportation point should be considered as the unit shall be transported with all equipments and accessories installed in it.		
9	**1.5 Side and end Walls:**	The side wall of the hut should be of MS sheets of 3 mm thick and should be welded to the bottom MS channel frame, corner posts, top frame and roof frame. Walls should be provided with adequately pressed reinforce section from inside for additional strength. At one end there should be socket board and switch board. At one side there should be one door for entry and exit to the Lighting Hut. Two bolted type doors should be provided at each side of the lighting hut for entry and exit of the 100 KVA transformer with suitable water ingress protection from rain etc. Suitably placed exhaust fan should be provided for free air circulation inside the Lighting Hut. Suitable opening (louver type) at selected locations of the side wall should be provided for free air flow.		
10	**1.6 Doors & Canopy**	One main door (size H=1800 mm, W= 780 mm), flush mounted should be provided at one side of the hut as shown in the indicative diagram for entry & exit to the Lighting Feeder Hut. At one end of the hut there shall be a socket board and switch board. Door should be provided for switch board and socket board individually (double palla). Suitable canopy(foldable, two numbers) should be provided for rain protection of the socket board and switch board as shown in the indicative diagram.		

		All doors should be double palla lockable arrangement with L-drop (at least two numbers in each door) and fitted with suitable rubber/neoprene gasket to prevent water ingress during rain etc. Additionally, two bolted type doors should be provided at each side of the lighting hut for entry and exit of the 100 KVA transformer with suitable water ingress protection from rain etc.		
11	**1.7 Roof**	The roof should be of sloping type from the centre forward the walls for efficient drain of water. The roof should be made of 3 mm thick MS sheets as per IS and is provided with adequately pressed reinforced sections from inside for additional strength and this should be able to comfortably resist loads up to 20 lbs/sq feet. All the structural steel used should be of standard quality as per IS specification and all steel components / sections, machine pressed for rigidity to optimize strength to weight ratio. The roof should be extended at both ends which is equal to the extended portion of the skid floor.		
12	**1.8 Pre-treatment & Painting:**	All steel surfaces should be sand or shot blasted for degreasing and de-rusting followed by pre-treatment with anticorrosive chemicals including phosphating. Coating should be applied with red-oxide, zinc chromate, primer conforming to IS 2074. The internal and external surface of the hut should be finally painted with two coats of corrosion resistant rubbers chlorinated marine paints or polyurethane paints. The under frame should be painted with bituminous paint of reputed make as per IS. The colour shade and grade will be decided at the time of inspection by representatives of OIL and the		

		highest level of aesthetic should be maintained and necessary marking/ logo should be provided as per the advice of OIL.		
13	**1.9 Layout of the Lighting Hut:**	The bunk Lighting hut shall be suitably designed to accommodate the following equipments : i) 1 X 100 KVA Transformer – One number ii) Incomer panel of size (indicative) H= 1800 mm, W= 600 mm and depth D= 500 mm iii) Socket Boards & switch board with suitably rated bus bars at one end with individual door and foldable canopy. iv) Other accessories like exhaust fan (one number), LED light (two numbers inside & two numbers out side), switch board etc. An indicative diagram of the layout is attached herewith in Annexure-II		
14	**1.10 Specifications of Steel (Indicative)**	(i) Steel - Load bearing members IS 1079 / grade St 42 / JIS G 3125 SPA-H (SAIL/TATA/ESSAR) (ii) Structural Steel I Beams / Rolled sections IS 2062 (SAIL/TATA/ESSAR) (iii) Side, End walls & Roof panels Corten-A / JIS G3125 SPA-H /SAILCOR/IRSM 41 Documentary evidence regarding the purchase of the above material is to be provided to if requested by OIL.		
15	**1.11 Name Plate & labeling of the hut:**	The writing of the name plate on the Lighting Hut should be as per following: a) “Lighting Feeder Hut”, “Oil India Ltd” with OIL logo & PO number should be written on a proper plate and should be fixed on either sides of the hut. The writings should be of proper size and good contrasting color so that it is visible from distance. b) Weight & dimensions of the hut should be written in two diagonally		

		opposite corners of the hut near the lifting point. c) Lifting point should be properly marked.		
16	**1.12 Welding:**	The containerized Lighting hut should be of welded steel construction using the latest method of MIG using CO2 argon as shield gas. All the external welding should be continuous, uniform and of full penetration.		
	2.0 Electricals:			
17	**2.1 Dry Type Transformer 1 x 100 KVA: Quantity one for each hut**	The transformer shall be used to supply the non-hazardous, general rig area lighting, crew camp supply and auxiliary loads which need a 240 V phase-to-neutral and 415 v 3 phase 4 wire connection. Neutral of the isolation transformer shall be grounded solidly. Transformer should be wheel mounted properly fixed on the floor inside the lighting hut. Capacity- 100 kVA, ,continuous rating Dry Type, copper wound, air cooled Voltage - 415/415 volts, Dyn11, neutral available for connection. Frequency - 50 Hz Phases - 3 phase Impedance - 4% Vector Group - Dyn11, Star connected secondary, neutral available for connection Enclosure - IP23 type, with provision for natural circulation of cooling air. Ambient temperature - 55 Deg C Temperature rise above ambient - 90 Deg C Insulation - Class F Rated power freq. withstand - 3 kV (rms) or better Standard - Indian standard IS: 11171 Primary and secondary side terminations: The termination of the Transformer primary and secondary right from		

		Socket board to busbar, panel etc should be done with 3 core, 50 mm2 cable. Neutral connection on secondary side shall also be of 2 Nos 50 mm2 cable (1core) (one for grounding and other for neutral circuits). Suitable cover should be used for covering the cables to avoid physical damage. Stand-off copper termination (termination using copper flats) / Stud type connections as per standard design of manufacturer shall be provided. All cable lugs shall be terminated using removable nut and bolts.		
18	**2 2 Electrical Schematic diagram (Indicative)**	The indicative electrical schematic diagram of the lighting feeder hut is shown in annexure –II in the attachment. Bidder should finalize the electrical schematic based on this and get it approved from OIL before manufacture. The approved schematic should be drawn in stainless steel plate (two numbers) and should be fixed in two places (one near socket board and one at incomer panel door inside the hut or suggested by OIL representative).		
19	**2.3 Incomer Panel: Quantity one for each hut**	An incomer panel made from MS plate of 2 mm thick, floor mounting, cubicle type, dust & vermin proof, front open hinged door should be suitably fixed inside the hut for accommodating various components like MCCBs, Change Over Switch (COS), Busbars, MCBs, Multi Function Meter (MFM), volt meter, ammeter etc. Proper ventilation should be provided for free air movement. The panel should be designed and manufactured as per IS-8623. The metal surface of the panel should be given seven tanks anti corrosion treatment and then powder coated. The panel should be able to		

		withstand the stress and vibration during transportation of the hut. Indicative layout for the panel is shown in annexure –II. Following points/ equipments to be taken in to account/ to be provided for the panel. i) MCCBs : Should be mounted inside the panel. Suitable opening should be made at the front door for the operating leaver or handle. ii) Change over switch (manual) for selection of incoming source. iii) Copper Busbars for 3 phases and Neutral with suitable insulating support. iv) MCBs for LED lights, space heaters & exhaust fan. v) Two distinct earthing point on the panel for body earthing. vi) Suitable rating space heater inside the panel vii) The wiring cable shall be PVC insulated, 1100 V grade, suitable current rating, fire-retardant, multi-stranded flexible copper conductor and ISI marked. viii) All wires shall be colour coded as Red/Yellow/Blue for Phase, Black for neutral and Green for earth. ix) Metering as indicated in the "Metering" Clause. x) Any other equipments that may require to complete the Feeder Hut.		
20	**2.4 Main Socket Board & Switch Board** :	The main socket board & switch board shall be fixed at one end of the lighting hut as shown in the Lighting hut layout diagram in annexure –II. These boards shall have front open double palla doors with rain protection canopy (foldable)as mentioned above. All the sockets should be BCH type or as indicated and rating should be as shown in schematic diagrams. The switch board shall be adjacent to the socket board having suitable rating individual MCCB with RCD for each socket. For 125A incomer		

		sockets MCCBs with RCDs shall be at Incomer Panel inside the hut. The rating of plugs are as follows : i) 125 A, 5 pin incomer plug &socket : 03 nos (one from ACPCR and other from 63KVA genset, one spare) ii) 63 A, 5 pin outgoing feeder plug & socket : 03 nos iii) 32 A, 5 pin outgoing feeder plug & socket : 06 nos iv) 16 A, 5 pin outgoing feeder plug & socket : 09 nos All sockets shall be 3 phase 4 wire connection with proper load balance. Suitably rated copper tined bus-bar (3 ph, 4 wire, 600A) should be used for connection of outgoing sockets.		
21	**2.5 Drawings and documents :**	Bidder should submit the offer as per attached format clearly specifying the compliance/ non compliance/ deviation against each clause of the NIT along with other necessary documents. Following drawings and documents should also be submitted at various stages. **I) Drawings & documents to be supplied along with the bid for the proposed system one set:** i) Skid and housing diagrams showing various dimensions. ii) Layout diagram of the Lighting hut showing various items/equipments. iii) Electrical Schematic diagram (Power Flow) showing various equipments and ratings. iv) Technical details of main transformer indicating make and model offered. v) Socket board & Switch board layout diagram. vi) Electrical wiring diagram (schematic) for light, exhaust fan etc. **II) Drawings & documents to be supplied for Oil India's approval before manufacture (one set):**		

		i) Final Skid and housing diagrams showing various dimensions. ii) Layout diagram of the transformer hut showing various items/equipments. iii) Electrical Schematic diagram showing various equipments and ratings. iv) Bill of Materials (BOM) pertaining to electrical systems indicating part number, specification etc . v) Socket board & switch board layout diagram. vi) Electrical wiring diagram (schematic) for light, exhaust fan etc with BOM. **III) Drawings to be supplied after successful commissioning (as built):** i) Successful bidder shall provide 6 sets of all the approved drawings suitably cover bounded after successful commissioning, incorporating all changes made during commissioning. ii) Final Bill of materials pertaining to electrical scope of supply indicating part number, specification etc . iii) Transformer technical details.		
22	**2.6 Metering:**	Following meters to be provided with the each Lighting Feeder Hut. i) One digital multifunction meter (MFM) should be provided to measure various electrical parameters of 100 KVA transformer. This digital MFM should be mounted in the panel in side the hut. The MFM should able to measure voltage, current, KWH, KW, power factor, cumulative KWH etc. and should be connected to the secondary side of the transformer. ii) One analog voltmeter to be provided at the 100 KVA transformer secondary to display the phase to phase voltage through a selector switch. iii) One analog ammeter to be provided		

		at the 100 KVA transformer secondary to display current in each phase with the help of selector switch.		
23	**2.7 Electrical Wirings:**	a) Metallic conduit to be used wherever required for wiring of various electrical items inside the Lighting hut. b) Conduit size and no. of wires in conduit shall be as per IS. Corners shall be rounded elbow type for ease of insertion of wires. c) The wiring cable shall be PVC insulated, 1100 V grade, FRLS, BIS compliant multi-stranded flexible copper conductor. d) All wires shall be colour coded as Red for Phase, Black for neutral and Green for earth. All wire ends in DB, Main Switch and Socket outlets shall have copper lugs . Wiring of the Lighting hut shall be done as per IS:732(1989). e) All points shall have individual switches and independent neutral wire. All light and fan points shall be suitably distributed in the switch boards with individual switches. f) Earth points for socket outlets, fans etc. shall be individually wired with insulated wires to switchboards. No earth connection shall be made directly to any point of the metallic shell of the Lighting hut.		
24	**2.8 Notes:**	i) The job shall start only after approval of drawings etc. from OIL. ii) Entire electrical installation work has to be done by licensed electrician as per CEA Regulations and NEC codes. iii) Test report of the entire electrical work as per CEA Regulations will have to be submitted to OIL after completion of the job. iv) The electrical work shall be		

		treated as complete once installation, testing & commissioning of electrical works are accepted by Head-Electrical and submission of valid test report for electrical works, #as installed# drawings & list of electrical items used, spares for lighting system by the party.		
25	**2.9 Indicative makes of Electrical Items:**	The electrical items used should have a proven track record of good performance. The indicative makes of electrical items are as follows: i) Transformer : BHEL/CG/BB/Siemens/AE/Arya/Quantum ii) Plug & socket : BCH, Appleton, Pyle National, Amphenol. iii) MCCB, MCB & RCD: LeGrand / Havells / Merlin Gerin / Siemens/Schneider. iv) LED Lights : Philips / Compton Greaves / GE /Bajaj/ Havells/Syska. v) Exhaust fan: Usha / Crompton Greaves / Bajaj / Orient. vi) Wires & cables: Finolex / Havells. vii) Digital Multifunction Meter : Conzerv/ L&T/EL Measure /Meco/ Rishabh viii) Analog ammeter : AE/ Rishabh/Meco ix) Analog voltmeter: AE/ Rishabh/Meco		
26	**2.10 Mandatory Spares** :	The following mandatory spares have to be supplied along with the lighting huts. The quantities shown are the total quantity for two numbers of huts. i) 16 A, 5 pin power plug sockets – 6 nos ii) 32 A, 5 pin power plug sockets – 4 nos iii) 63 A , 5 pin power plug sockets - 2 nos iv) 125 A, 5 pin power plug sockets – 2 nos. v) 200 A MCCB with RCD – 2 nos vi) 200 A Change Over Switch		

		(COS) (3 ph 4 wire) – 1 no. Bidder should quote for the above quantities of mandatory spares along with the bid. Make of the spares should be same as make of the items use in the hut.		
27	**3.0 Warranty & Guarantee**:	The Lighting hut including painting & all the bought out items, should have minimum onsite warranty of one year from the date of installation or 18 months from the date of receiving whichever is earlier. Bidder should confirm it along with quotation. The offer, taking exception to this will be rejected. This guarantee shall cover all items of the package, including (but not limited to) the skid, housing, all the internal components and any spares supplied. Any repairs / replacements required during this Warrantee period shall be carried out by the successful bidder, on site, at no cost to Oil India.		
28	**3.1 Inspection:**	**a) Stage Inspection** The stage inspection of the packages of Lighting hut shall be inspected at Manufacturer works by OIL representatives during construction of the skid and housing. **b) Pre-dispatch inspection** Final pre-dispatch inspection of the packages shall be carried out by OIL representatives at manufacturer's works. The complete packages shall be tested according to manufacturer's standard test procedures, to demonstrate conformance with all required specifications. Representatives from Oil India shall witness these tests, and record results thereof. Manufacturer should give inspection calls to Oil India at least 20 days in advance. All test reports, certificates; approvals etc. pertaining to the system should be furnished during final pre-dispatch		

		inspection. This to be noted that, such inspection shall not relieve the supplier of his responsibility to ensure that, the equipments/systems supplied are free from all manufacturing and other defects and conforms to correct specifications & performances. However, inspection by OIL's representative will remain at its discretion. Boarding, lodging, transportation cost of such inspection for the OIL representative shall be borne by OIL.		
29	**3.2 Packing & Dispatch**	The completed units shall be dispatched to Oil India's designated site at Duliajan, Assam, India. The units shall be sent from manufacturer's works fully fitted, and ready to be commissioned at well sites. The units should be packed suitably to avoid ingress of rain, moisture and dust; and to withstand the rigorous of travel, as well as storage before final commissioning.		
30	**3.3 Commissioning**	Successful bidder will be responsible for installation, and commissioning of the complete packages at well sites of Assam or at OIL's facility at Duliajan, Assam. The expected date of commissioning shall be informed by OIL after the packages are transported to Duliajan, Assam. Bidder must quote separately for installation & commissioning charges if any. OIL shall transport the packages to the various well sites from Duliajan (receiving site) for commissioning.		

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Technical Bid Checklist **Annexure-EEE**

Tender No.	
Bidder's Name :	

SL. NO.	BEC / TENDER REQUIREMENTS	Compliance by Bidder	
		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

ANNEXURE - GGG

(TO BE FILLED UP BY ALL THE VENDOR IN THEIR OWN LETER 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.**