

### Bid Document

Bid Details	
Bid End Date/Time	13-05-2021 13:00:00
Bid Opening Date/Time	13-05-2021 13:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	60 (Days)
Ministry/State Name	Ministry Of Petroleum And Natural Gas
Department Name	Oil India Limited
Organisation Name	Oil India Limited
Office Name	Oil India Limited
Total Quantity	60
Item Category	OPTICAL FIBRE CABLE
Minimum Average Annual Turnover of the Bidder	18 Lakh (s)
Years of Past Experience required	3 Year (s)
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Experience Criteria,Past Performance,Bidder Turnover,OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Past Performance	50 %
Bid to RA enabled	No
Time allowed for Technical Clarifications during technical evaluation	7 Days
Inspection Required	No
Evaluation Method	Total value wise evaluation

### EMD Detail

Required	No
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### ePBG Detail

Advisory Bank	AXIS BANK LTD
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	21

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

**Beneficiary:**

Chief Manager Materials

Oil India Limited, OIL INDIA Limited, OIL INDIA Limited, Ministry of Petroleum and Natural Gas  
(Balen Bharali)**Splitting**

Bid splitting not applied.

**MSE Purchase Preference**

MSE Purchase Preference	Yes
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1. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

2. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

3. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY.

4. Past Performance: The Bidder or its OEM {themselves or through re-seller(s)} should have supplied same or similar Category Products for 50% of bid quantity, in at least one of the last three Financial years before the bid opening date to any Central / State Govt Organization / PSU / Public Listed Company. Copies of relevant contracts (proving supply of cumulative order quantity in any one financial year) to be submitted along with bid in support of quantity supplied in the relevant Financial year. In case of bunch bids, the category related to primary product having highest bid value should meet this criterion.

**OPTICAL FIBRE CABLE ( 60 kilometer )**

Brand Type	Unbranded
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**Technical Specifications**

Buyer Specification Document	<a href="#">Download</a>
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**Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting	Address	Quantity	Delivery Days
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	Officer			
1	Tanveer Jalal	781171,Oil India Limited, Pipeline Headquarters, Narangi, P.O. Udayan Vihar, Guwahati	60	60

#### Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	Unit of Measurement <a href="#">View</a>	Total Quantity	OPTICAL FIBRE CABLE(60)

**The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.**

#### Buyer Added Bid Specific Additional Terms and Conditions

- 1.Data Sheet of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered. In case of any unexplained mismatch of technical parameters, the bid is liable for rejection.
- 2.Experience Criteria: The Bidder or its OEM {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU / Public Listed Company for 3 years before the bid opening date. Copies of relevant contracts to be submitted along with bid in support of having supplied some quantity during each of the year. In case of bunch bids, the primary product having highest value should meet this criterion.
- 3.Scope of supply (Bid price to include all cost components) : Only supply of Goods

#### Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

**---Thank You---**



## TECHNICAL SPECIFICATION

### Supply of OPTICAL FIBRE CABLE

Sl.No	Item
10	<p>Technical Specification:</p> <p><u>OPTICAL FIBRE CABLE</u></p> <p>Multi Grade, Non-Metallic, Single Mode, Composite Optical Fibre cable with 24 Fibre counts, out of this 6 fibre counts are as per ITU-G.655 and 18 fibre counts are as per ITU-G.652D specifications. Both grades of fibers (ITU G.652D and ITUG.655) must be manufactured as per latest TEC specifications.</p> <p>TECHNICAL SPECIFICATIONS</p> <p>1. Optical Fibre (OF) Cable :</p> <p>1.1 General: (Bidders to provide Clause by Clause compliance statement).</p> <p>1.1.1 The non metallic duct OF Cable to be supplied shall be 24 fibre count step index Single Mode fibre, out of which 6 fibre counts shall be Non-Zero Dispersion Shifted (NZ-DSF) type as per ITU G.655 specification and remaining 18 fibre counts shall be Non Dispersion Shifted Fibre (NDSF) as per ITU G.652D specification.</p> <p>1.1.2 The metal free duct OF Cable shall be suitable for underground installation in permanently lubricated HDPE duct buried at an approximate depth of 1.65 meters from the ground level and be required to cross various roads, railways, canals, small rivers, marshy areas etc. through appropriate casings. The optical fibre cable shall be low weight, small volume and high flexibility for laying in a permanently lubricated HDPE duct using blowing techniques. The cable shall have build-in protection against termites and rodents.</p> <p>1.1.3 The life of the cables should be more than 25 yrs.</p> <p>1.1.4 The metal free duct OF cable to be supplied is 2 Km in length per single drum without any joint/splice,</p> <p>1.2 Cable Construction Details:</p> <p>1.2.1 The inner strength member shall be Fiber Reinforced Plastic (FRP) rod , non metallic member with minimum diameter of 2mm. The strength member shall provide strength and adequate flexibility of the cable and shall have anti buckling property. This shall also keep the fibre strain within the permissible value.</p>

1.2.2 Around the strength member, 4 Nos of loose tubes made of Polyamide/PBTP or other thermoplastic material are to be symmetrically placed using helical or reverse lay technique with 6 nos of primary coated fibres in each tube. Two polyethylene dummy fillers tubes are to be added so that the cable gets packed into near round configuration. The tubes are to be filled up moisture resistant thixotropic jelly, which should be compatible with the coated fibres in the tube. The colour of the loose tubes containing fibres shall be of 4 different distinct colours. The 6 fibre counts of G. 655 type shall be housed in a single tube, rest of 18 fibres to be distributed equally in remaining 3(three) tubes. The loose tube containing G.655 type fibre shall be Red Colour and other three tubes containing G.652 type fibres shall be Yellow, Green and Brown Colour. The tube assembly and the core shall be flooded with the moisture resistant jelly.

1.2.3 Aramid yarn strength members distributed equally over the periphery of loose tube should be provided along with the solid FRP strength member for peripheral strength.

1.2.4 The main cable core containing fibres shall be wrapped with a water blocking polyester of foil / tape of minimum 0.15 thickness. The nylon/polyester binder thread shall be used to hold the tape.

1.2.5 The cable core containing fibres and core assembly shall be protected by flooding water resistant jelly having non-hygroscopic dielectric compound.

1.2.6 The loose tube wrapped with water resistant tapes are to be enclosed by a weather resistant inner black coloured HDPE sheath of minimum 1.8 mm thickness. The material of the HDPE shall be UV stabilized.

1.2.7 An outer covering jacket of termite and rodent resistant material free from pin holes, scratches and other defects and with sufficient thickness and diameter (nominal) of  $12.0 \pm 0.5\text{mm}$  shall be provided for the non metallic cable.

1.2.8 Suitable rip cord (s) shall be provided which shall be used to open the HDPE sheath of the cables. The rip cord (s) shall be properly waxed to avoid wicking action and shall not work as water carrier.

1.2.9 The fibre in a single cable drum length shall NOT have any joints.

1.2.10 The filling compound used in loose tube and in the cable core shall be compatible to fibre, secondary protection of fibre, core wrapping etc. The fibre movement shall not be constrained by stickiness and shall be easily removable for splicing.

1.2.11 The bidder shall submit a core sectional diagram of the cables with dimensional and material details of each layer including the fibre refractive index, index profile and percentage of excess fibre length in the cable jacket length along with the Technical Bid.

### 1.3 Material

1.3.1 The material used in the manufacturing the optical fibre cable shall be non-toxic and dermatologically safe in its lifetime.

1.3.2 The cable shall use the raw materials as per the Telecommunication Engineering Centre (TEC) specification GR No.: TEC/GR/TX/ORM-01/04/SEP 2009 and its subsequent amendments (if any).

1.3.3 The material used in optical fibre cable must not evolve hydrogen, which will affect the fibre loss.

1.3.4 The raw material used for manufacturing the cable shall be clearly indicated by the bidder.

### 1.4 Mechanical & Environmental Characteristics:

As per relevant TEC Specs

### 1.5 Geometrical Characteristic of Optical Fibre :

As per relevant TEC Specs

### 1.6 Mechanical Characteristics of OF :

As per relevant TEC Specs

### 1.7 Transmission Characteristic of Fibre:

As per relevant TEC Specs

1.8 OIL at its own discretion will delete or include certain Telecommunication Engineering Centre

(TEC) recommended test(s) if the cable is manufactured under strict quality assurance programme and raw materials are procured from reputed sources. All the tests will be conducted as per relevant IEC and TEC guidelines.

1.9 It shall be explicitly understood that under no circumstances shall any approval of OIL or its representative relieve the supplier of its responsibility of reliable performance of the supplied material .

1.10 Fibre Identification Colour:

The coatings shall be in various distinct colours in order to facilitate fibre identification. Fibres colours shall correspond to IEC publication 793-2 and 304. The colours shall correspond reasonably with standard colours and shall readily be identifiable and shall be durable. The colours used should have fast colours properties and should not fade during the lifetime of cable. The coating and colour shall not react with surrounding jelly. The supplier shall take prior approval from OIL for the colour scheme for fibre identification before commencement of manufacture of OFC.

Cable marking: "OIL INDIA LIMITED" shall be marked on the cable sheath in black colour in addition to other details like meter markings and as mentioned above.

Colour Scheme of the 6 fibers per loose tube:

Blue

Orange

Green

Brown

Slate/grey

Yellow

2. Packaging:

2.1 The cable shall be rolled in wooden drums with rugged construction to withstand multiple transshipment and handling as well as storage in open area under adverse weather conditions. The drum (confirming to GR No. G/CBD-01/02 Nov. 94 and subsequent amendments) should be marked to identify the direction of rotation of the drum. Both ends of the cable should be kept inside the drums.

2.2 Packaging of cable shall be done in a manner in such a way that it will allow 2 meter length of cable at each end to be pulled out for performing various tests. The end shall be protected by heat shrinkable sleeves.

2.3 The cable drums shall have adequate protection from rain, dust, insect and rodents.

2.4 The cable drum shall be marked with an arrow to indicate the coiling sense.

2.6 The cable drum and crate shall be marked with the following:

Consignees Name : Oil India Ltd.

Site Name : .....

Material : .....

Quantity : .....

Overall weight : .....

Batch Name : .....

Date of Manufacturing : .....

Manufactured and Supplied by : .....

2.7 A packing list containing details of cable and test certificate shall accompany each cable drum, secured by abrasion and waterproof jacket fixed to the drum in a strategic location.

3. Documents:

The bidder shall submit 2 copies of technical documents in English original bound volume containing comprehensive information on the following pertaining to the supplied material:

i) Fibre cable construction detail

ii) Fibre preparation for splicing

iii) Test and measurement procedure and equipment at bidder's site

- iv) Fibre splicing types and procedures
- v) Safety in handling of fibre cable
- vi) Various types of connector and practical method of connectors
- vii) Jointing and termination box detail

4. Clause by Clause compliance statement shall be provided for all clauses from 1 to 3 ( including all sub clauses).

5. Successful bidder must provide test certificate of the product during supply of the material.

**6. Bidder/ OEM must have valid Type Approval Certificate(TAC) from Dept of Telecommunications (DoT) or Technical Specification Evaluation Certificate (TSEC) from BSNL against relevant TEC Generic Requirements (GR), with all amendments till date. Documentary evidence valid on original bid closing date must be provided by the bidder in this regard. Offer without the same will be rejected.**