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Before the MP Electricity Regulatory Commission
5TH Floor, "Metro Plaza", E-5, Arera Colony, BHOPAL.

Petition No. of 2023

In the Matter of - Filing of Petition regarding approval for Leasing of spare Dark Fibers of OPGW Network of MPPTCL for Commercial use.

Applicant - Madhya Pradesh Power Transmission Company Ltd., (MPPTCL), Shakti Bhawan, Jabalpur (MP).

- Respondents -
- i. MP Poorva Kshetra Vidyut Vitaran Company Ltd., Shakti Bhawan, Jabalpur.
 - ii. MP Madhya Kshetra Vidyut Vitaran Company Ltd., Govindpura, Bhopal.
 - iii. MP Paschim Kshetra Vidyut Vitaran Company Ltd., Pologround, Indore.
 - iv. MP Industrial Development Corporation Limited, Indore
 - v. West Central Railways, Jabalpur on its own behalf and on behalf of Zonal Railways, having Traction Sub-stations in the State of Madhya Pradesh.

The above named applicant respectfully begs to submit as hereunder;

1. PREAMBLE -

The applicant is a Company registered under Companies Act 1956 on 22.11.2001 with its headquarter at Jabalpur, for the purpose of undertaking the Intra-State Transmission activities in the State of Madhya Pradesh. The activities of Generation, Transmission and Distribution have earlier been looked after in the State of Madhya Pradesh by an integrated utility i.e., Madhya Pradesh State Electricity Board (MPSEB) constituted under Section 5 of the Electricity (Supply) Act 1948. The Government of Madhya Pradesh enacted Madhya Pradesh Vidyut Sudhar Adhiniyam 2000. In the spirit of the said Act, the unbundling process of the MPSEB was initiated by registering the following five Companies;

- | | | |
|--------|---|--|
| (i) | Madhya Pradesh Power Generating Co. Ltd., Jabalpur (MPPGCL) (GENCO). | To look after the Electricity Generation activities in the State of Madhya Pradesh. |
| (ii). | Madhya Pradesh Power Transmission Co. Ltd., Jabalpur (MPPTCL) (TRANSCO). | To look after the Electricity Transmission activities in the State of Madhya Pradesh. |
| (iii). | Madhya Pradesh Poorva Kshetra Vidyut Vitaran Company Ltd. Jabalpur (MPPKVVCL) (EAST DISCOM). | To undertake distribution of Electricity in Eastern part of MP (Board's Jabalpur, Sagar and Rewa Regions). |
| (iv). | Madhya Pradesh Madhya Kshetra Vidyut Vitaran Company Ltd. Bhopal. (MPMKVVCL) (CENTRAL DISCOM). | To undertake distribution of Electricity in Central part of MP (Board's Bhopal and Gwalior Regions). |
| (v). | Madhya Pradesh Paschim Kshetra Vidyut Vitaran Company Ltd. Indore (MPPKVVCL) (WEST DISCOM). | To undertake distribution of Electricity in Western part of MP (Board's Indore and Ujjain Regions). |

The above mentioned Five Companies, which were registered in November 2001, entered into an Operation Management Agreement with the MPSEB and worked as agents of the MPSEB from July 2002 to May 2005. The Companies started independent functioning w.e.f. 1.6.2005 under a Cash Flow Mechanism as per the State Government order dated 31.05.2005. MPPTCL has since been separated from Cash Flow Mechanism w.e.f. 01.04.2012. The Government of Madhya Pradesh (GoMP) has also nominated MPPTCL as the State Transmission Utility w.e.f. 01.06.2004

A Sixth Company, namely the MP Power Trading Company Ltd., has also been incorporated as per the State Government's notification dated 3.6.2006 specifying functions of TRADECO for the purchase of electricity in bulk from Generating Companies / Traders, from within and outside the State and supply Electricity in bulk to the Electricity Distribution Companies in the State of Madhya Pradesh. The Company has now been renamed as MP Power Management Company Ltd., and entrusted with certain coordinating functions.

2. SUBSEQUENT EVENTS -

The important events related to Power Sector in MP, which took place after formation of Companies, are mentioned hereunder;

3. ENACTMENT OF ELECTRICITY ACT 2003 -

The Electricity Act 2003 has been enacted on 9.6.2003. Section-62 of the Act provides for determination of Tariff for Transmission of Electricity by the appropriate Commission.

4. TRANSFER SCHEME -

First Transfer Scheme was notified on 1st October 2003, regulating the transfer and vesting of functions, properties and interests, rights and liabilities of the MPSEB in the State Government and re-transfer and re-vesting thereof by the State Government in the Companies.

The first Transfer Scheme has been amended vide notification No. 4003-FRS-17-13-2002, Bhopal, dated 13th June 2005, providing for the arrangements to discharge Terminal Benefit liabilities.

The State Government vide notification No. 3474/FRS/17/2002 dated 3rd June 2006 notified Madhya Pradesh Electricity Reforms Transfer Scheme Rules 2006, including Madhya Pradesh Power Trading Company as a transferee and modifying functions and Cash Flow Mechanism accordingly. The Company is now named as MP Power Management Company Limited.

5. STATE GOVERNMENT ORDER DATED 31ST MAY 2005 -

The State Government vide order dated 31st May 2005, notified the provisional "Opening Balance Sheets" of the Companies as on 31.5.2005. The Operation Management Agreement between MPSEB and Companies stood terminated, and Companies started

independent functioning w.e.f. 1.6.2005 under a Cash Flow Mechanism. The final Opening Balance Sheet as on 31.5.05 has been subsequently notified on 12th June 2008.

6. FINAL OPENING BALANCE SHEET -

The Government of Madhya Pradesh notified the final Opening Balance Sheet of MPPTCL and other Companies vide order No. 4068-FRS-18-2002-XIII Bhopal dated 12th June '08.

The stipulations made in the order dated 12th June '08 are reproduced hereunder;

- (a). *The final Opening Balance Sheet of the Companies appended to this order shall be final & binding on all the stake holders.*
- (b). *The Companies and Residual Madhya Pradesh State Electricity Board shall take necessary steps to appropriately intimate the changes, vis-à-vis the Provisional Opening Balance Sheets notified on 31st May 2005, to all concerned statutory authorities and other Stake holders.*
- (c). *RAO-wise account code-wise details shall be provided to the Companies by Chief (Finance & Accounts), MPSEB.*
- (d). *The Guarantees extended by the State Govt. to various lenders, in respect of loans given by them to MPSEB, shall stand transferred in the name of the Company to whom such loans are allocated as per the final Opening Balance Sheets and these guarantees shall continue to be valid on the same terms & conditions, till the final discharge of the loan liability by the Company.*
- (e). *The Cash Flow Mechanism among the Residual MPSEB & the successor companies of MPSEB as prevailing on the date of this notification shall continue to operate till further orders.*
- (f). *There is no such item as "Loan from MPSEB to the Companies" in the final Opening Balance Sheets, therefore the directions earlier issued vide Energy Department's letter No. 300/13/2006 dated 18th January 2006 stands withdrawn.*
- (g). *The assets of SLDC (Block Value ₹ 67.55 lakh) are included in the Assets of Madhya Pradesh Power Transmission Company Limited. SLDC is not an Independent Company as yet and no separate Opening Balance Sheet is being notified for SLDC.*
- (h). *Loan No. 20102007 amounting to ₹ 119 Crores was sanctioned by PFC under generation scheme for Marikheda HEP and allocated to MPPGCL. Out of this loan, ₹ 5.53 Crores relates to Transmission works which shall be payable by MPPTCL to MPPGCL on the same terms and conditions.*
- (i). *Liabilities towards SLR & PP bonds have been allocated to the Companies. However, the servicing of these liabilities shall continue to be done by MPSEB on behalf of the Companies. For accounting of these liabilities in the books of the companies, the MPSEB would provide all necessary information to the Companies regarding name of investors, amount of investment, the interest to be provided and payments falling due etc. from time to time alongwith intimation of settlement of liabilities as and when the same take place for different investors.*
- (j). *Company-wise allocation of Additional Contingent liabilities on account of Govt. of India order dated 4th November 2004 in respect of bifurcation of assets & liabilities of MPEB between MPSEB & CSEB shall be separately notified by the State Govt. after final orders of the Supreme Court in O.S.-06/04.*
- (k). *The past unfunded pension liabilities of pensioners and employees of MPSEB existing as on 31st May 2005 are to be assessed by Actuarial valuation and is therefore retained with Residual MPSEB for the time being. The actual pension/ gratuity payment shall be claimed by MP Power Transmission Co. Ltd., in its ARR till requisite fund equivalent to the past unfunded liabilities is built up in the manner provided in Rule 10 & 11 notified earlier vide No. 4003-FRS-17-13-2002 dated 13th June 2005.*
- (l). *The matters pertaining to administration and accounting among Companies as well as statutory authorities regarding GPF, GTIS, SCLIS etc. shall continue to be looked after by MP Power Transmission Co. Ltd.*

7. TRANSMISSION SERVICE AGREEMENT -

In compliance to Clause 5 of the State Government order dated 31.5.05, the Five Companies and MPSEB entered into a Transmission Service Agreement on 17th June 2005, as per the draft approved and forwarded by MPSEB to the State Government. The Transmission Service Agreement dated 17th June'05 provides "The Tariff and terms & conditions for the Transmission services to be rendered by the Transco, shall be as per the Tariff determined by the State Commission from time to time. The MPPTCL has therefore raised the bills of Transmission charges since 1.6.2005 as per the Tariff determined by the Hon'ble Commission from time to time. Hon'ble Commission directed to enter into a long term Transmission Service Agreement. Accordingly, the Petitioner MPPTCL has entered into Transmission Service Agreement with the three Distribution Licensees on dates indicated hereunder;

- (i). East Discom - 20.11.2006.
- (ii). Central Discom - 17.11.2006.
- (iii). West Discom - 17.11.2006.

An agreement dated 29.01.2005 also exists between MPSEB and MPIDC(SEZ) which as now stands between MPPTCL and MPIDC(MPAKVN), as per Transfer Scheme. MPIDC(MPAKVN) is a Long Term Open Access customer for MPPTCL, for its Special Economic Zone campus at Pithampur, Distt. Dhar. Further, West Central Railways (WCR), on behalf of Indian Railways entered into Bulk Power Transmission Agreement, with MPPTCL on 7.10.2016 for transmission of power to the Traction Sub-Station (TSS) points of Railways in MP effective from 22.01.2016 for power schedule.

The copies of executed agreements have already been submitted to Hon. MPERC.

8. APPROVAL OF LEASING OF SPARE DARK FIBERS OF OPGW NETWORK OF MPPTCL FOR COMMERCIAL USE -

In the subject matter, it is most respectfully submitted that MPPTCL has installed about 4000 Km of 24 Fiber OPGW network and now in the process of establishing 11000 Km of OPGW network under PSDF Scheme of Govt. of India.

The Board of Directors of MPPTCL in its 117th Meeting held on 24.03.2023 has approved that request for proposal be issued for leasing of spare Dark Fibers. The copy of BoD approval is enclosed as **Annexure-I**.

The RFP has been invited for Leasing of spare Dark Fibers of OPGW Network for commercial use. Initially, it has been proposed to lease out 4 pairs of dark Fibers, out of 8 pairs available for leasing. The floor price has been considered as Rs. 16,500/- per fiber pair per Km per annum (including O&M charges but excluding GST) for 1st year and 5% escalation in lease rent in subsequent years. The bidders are required to quote their leasing rate per pair of Dark Fibers per Km per annum for a particular route for first year. The bid rate shall not be less than floor price mentioned in the RFP. Further, allotment of fibers shall be made at highest rate only, which will be determined after finalization of RFP. The

agreement period has been considered as 10 years extendable up to 5 years on mutually agreed terms. The copy of RFP issued by MPPTCL is enclosed as Annexure-II.

9. It is requested that Hon. Commission may kindly accord approval for leasing of spare Dark Fibers of OPGW network of MPPTCL for Commercial use. The revenue earned on account of leasing of Spare Dark Fibers of OPGW network of MPPTCL will be treated as Non-tariff / Other income.

10. The instant petition is being filed under the following Provisions -

(A) OTHER BUSINESS OF THE LICENSEE As per Clause 5.14 of "The Conditions of Transmission License for Transmission Licensee (including deemed Licensee)' Regulation issued on 23rd July 2004 *"The Licensee may engage in any business to optimize the utilization of assets, but only with the prior approval of the Commission. Any such engagement shall be for the purpose of gainful employment of assets only"*.

(B) SECTION 17. (LICENSEE NOT TO DO CERTAIN THINGS) SUB-SECTION 3 OF ELECTRICITY ACT 2003: -

"No licensee shall at any time assign his licence or transfer his utility, or any part thereof, by sale, lease, exchange or otherwise without the prior approval of the Appropriate Commission".

(C) SECTION 41. (OTHER BUSINESS OF TRANSMISSION LICENSEE) OF ELECTRICITY ACT 2003: -

"A transmission licensee may, with prior intimation to the Appropriate Commission, engage in any business for optimum utilization of its assets:

Provided that a proportion of the revenues derived from such business shall, as may be specified by the Appropriate Commission, be utilized for reducing its charges for transmission and wheeling:

Provided further that the transmission licensee shall maintain separate accounts for each such business undertaking to ensure that transmission business neither subsidises in any way such business undertaking nor encumbers its transmission assets in any way to support such business:

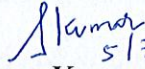
Provided also that no transmission licensee shall enter into any contract or otherwise engage in the business of trading in electricity"

15. PRAYER -

In view of the submission made in foregoing Paras, the petitioner respectfully prays that the Hon'ble Commission may;

- (a) Kindly accord approval for leasing of Spare Dark Fibers of OPGW network of MPPTCL.
- (b) Condone any inadvertent omission / errors / short-comings and permit the petitioner to add / change / modify / alter this Petition and make further submissions as may be required at a later stage.
- (c) Pass such orders, as Hon'ble Commission may deem fit and proper and necessary in the facts and circumstances of the case to grant relief to the applicant.

Dated:- 05-07-2023.


5/7/2023
(Sameer Kumar Nagotia)
Executive Director (CRA)
For and on behalf of
MP Power Transmission Company Ltd.,
JABALPUR.



5 JUL 2023

Before the Hon'ble Madhya Pradesh Electricity Regulatory Commission
BHOPAL.

5 JUL 2023

1602
05/07/23

Madhya Pradesh Power Transmission Co. Ltd.,
Shakti Bhawan, Vidyut Nagar,
JABALPUR - 482 008.

Petitioner.

Affidavit in support of Petition regarding approval for Leasing of spare Dark Fibers of OPGW Network of MPPTCL for Commercial use.

I, Sameer Kumar Nagotia, Son of Late. Shri K.R. Nagotia, aged about 53 years, Block No.3, Shakti Bhawan, Rampur, Jabalpur do hereby solemnly affirm and state as under;

- (1) I am working as Executive Director(CRA) in MPPTCL, Jabalpur. I am authorized by MPPTCL to swear this affidavit on behalf of the Petitioner.
- (2) The facts stated in Petition are correct to the best of my knowledge.

S. Kumar
5/7/2023
(Sameer Kumar Nagotia)
On behalf of Petitioner

MP Power Transmission Company Ltd.
Executive Director (CRA)
M.P.P.T.C.L., Jabalpur

VERIFICATION

I, the above named deponent, do hereby solemnly affirm and state that the facts stated in the above paragraphs of my affidavit are true to the best of my knowledge and are believed to be true.

5 JUL 2023

5 JUL 2023

Solemnly affirmed before me at Jabalpur on 5th day of July, 2023.

Declared before me as under
Shri Sameer Kumar Nagotia

Son of Shri Late K.R. Nagotia

aged at 53 years occupation Ex. Director (CRA)

Resident Director, C.C.P.A. MPPTCL JBP

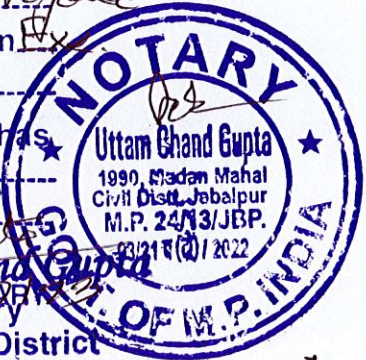
Who is personally known to me/his

been duly identified by MPPTCL JBP

Signature of Identifier Uttam Chand Gupta

Notarial Register Jabalpur District

Sr. No. 1602-DI-05705 **M.P. INDIA**



S. Kumar
5/7/2023
(Sameer Kumar Nagotia)
Executive Director (CRA)
M.P.P.T.C.L., Jabalpur



M.P. POWER TRANSMISSION COMPANY LTD.

(A wholly owned Govt. of Madhya Pradesh Undertaking)

CIN : U40109MP2001SGC014880

Regd. Off. : Shakti Bhawan, Rampur, Jabalpur (M.P.) 482 008

Tel. : (0761) 2661234, Fax : (0761) 2664141, e-mail : md@mptransco.nic.in, website : mptransco.nic.in

AUTHORIZATION

Shri Sameer Kumar Nagotia, Executive Director (CRA), MPPTCL is hereby authorized to file the Petition for filing of Petition regarding approval for Leasing of Spare Dark Fibers of OPGW Network of MPPTCL for Commercial use before Hon'ble MPERC on behalf of MPPTCL.

**CHIEF ENGINEER (HR & ADMINISTRATION)
MP POWER TRANSMISSION CO. LTD.,
JABALPUR.**



MADHYA PRADESH POWER TRANSMISSION COMPANY LIMITED

(A wholly owned Govt. of Madhya Pradesh Undertaking)

CIN: U40109MP2001SGC014880

No. CS/MPPTCL/ 112

C.E. (Procurement)
M.P.P.T.C.L., Jabalpur (M.P.)
Con. D/R No.: 278
Date: 26.04.2023

Dtd. 26/04/2023

EXTRACT OF MINUTES & COPY OF RESOLUTION PASSED AT THE 117th MEETING OF BOARD OF DIRECTORS OF THE COMPANY HELD ON 24th MARCH, 2023 AT REGIONAL OFFICE OF MPPMCL, E-4 CAMPUS, ARERA COLONY, BHOPAL

Item No.117.12: Leasing of Spare Dark Fibers of OPGW Network established by MP Power Transmission Co. Ltd.

It was apprised that the proposal for leasing of spare dark fibers of OPGW Network was approved by the Board of Directors in the 116th meeting held on 28.12.2022 subject to necessary approvals. In this regard, approval of the shareholders of the Company has been obtained in the 17th EGM held on 13.02.2023 and application for Infrastructure Provider Category-I (IP-I) registration required for leasing of dark fibers has been submitted to Department of Telecom, Govt. of India vide letter dtd. 08.02.2023.

In furtherance to the above, the proposal for issue of RFP for leasing of Spare Dark fibers has been placed before the Board of Directors. It was informed that the Company has invited Expression of Interest (EOI) for operation, maintenance and leasing of spare dark fibers of OPGW Network for commercial use. However, during pre-bid conference, most of the prospective bidders have requested permission to bid for part quantity and the same model has been adopted by various Transmission Utilities. A comparative statement of tenders floated by various Transmission utilities for leasing of Dark Fiber indicating the important parameters of the bidding was placed and discussed before the Board.

In this regard it was proposed that the model followed by most of the transmission utilities allowing bidders to bid for part quantity of the dark fibres be adopted by the Company also and RFP for leasing of spare dark fibers be issued accordingly. The broad bidding parameters of the RFP was placed and discussed before the Board.

After detailed discussions, the Board gave its consent to the aforesaid proposal. In this regard, the Board of Directors took note of the following and passed the resolution indicated hereunder:-

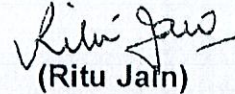
“NOTED THAT Madhya Pradesh Power Transmission Co. Ltd., (MPPTCL) has invited Expression of Interest (EOI) for Operation, Maintenance and Leasing of spare Dark Fibers of OPGW Network for commercial use. During Pre-Bid Conference, most of the prospective bidders have requested to permit them to bid for the part quantity. It is also noted that various Transmission Utilities have permitted bidders to bid for the part quantity.

Contd. on pg. 2

[Handwritten Signature]

RESOLVED THAT Request for Proposal be issued for leasing of spare dark fibers allowing bidders to bid for part quantity considering various bidding parameters detailed in the Precis note and Expression of Interest (EOI) earlier issued for Operation, Maintenance and Leasing of spare Dark Fibers of OPGW Network be dropped.”

For Madhya Pradesh Power Transmission Co. Ltd.


(Ritu Jain)

Company Secretary

✓ Forwarded to CE (Procurement), MPPTCL for information and necessary action please.

Copy to: Staff Officer attached to MD, MPPTCL, Jabalpur.

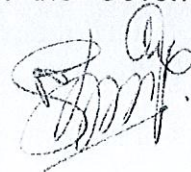
PRECIS NOTE

Sub: Leasing of Spare Dark Fibers of OPGW Network established by MP Power Transmission Co. Ltd.

The Madhya Pradesh Power Transmission Co. Ltd., a fully owned company of the Government of Madhya Pradesh, acting in its capacity as the State Transmission Utility in the State of Madhya Pradesh, engaged in the development of a state transmission grid with a view to increasing and improving the supply of electricity. Further, to facilitate internal communication and uses, MPTRANSCO has installed about 4000 Km of 24 Fiber OPGW network. MPTRANSCO is also establishing a network of 24 fiber OPGW having length of about 11000 Km under PSDF scheme of Govt. of India, for internal communication systems. The entire OPGW network is expected to be ready by May'2023. The total OPGW network created by the MPTRANSCO is referred as "MP Power Transnet Project" or "Project". Out of 24 fibers, 8 fibers are reserved for MPTRANSCO's internal use. Rest of the fibers are available for commercial use.

2. It is worthwhile to mention here that OPGW laid by MPPTCL is primarily concerned with the operation of MP grid, remote control of EHV Sub-stations, Intra-transmission network communication & data transfer related to MPPTCL. Since, only 8 fibers are required for MPTRANSCO's internal use, as such, it has been considered to explore the prospects of monetisation of rest of the fibers. In this endeavour, initial discussions with multiple service providers e.g. M/s Lightstorm, M/s Powertel, M/s Railtel, M/s Vodafone, M/s SIFY, M/s BSNL, M/s Sterlite and M/s Adani etc. have been done. During this process, rate of around Rs.12000/- per fiber pair per Km per annum have been suggested by the players for selected routes. However, M/s Sterlite have shown interest towards taking up the entire OPGW network on PPP route.

3. In the meantime, the CGM Telecom, MP Circle vide their letter dated 06.10.2022 addressed to Chief Secretary, GoMP has proposed to utilise / share OPGW network established by MPPTCL to meet the Government objective by adopting any of the following three options:



- (A) MPPTCL can provide free of cost fibers in OPGW cable to BSNL to provide world class Digital communication facilities in cities and uncovered villages to meet Govt. of India objectives.
- (B) MPPTCL can provide free of cost fibers to BSNL and BSNL will also provide fibers in reciprocation to MPPTCL for connecting their load dispatch centres spread across the state.
- (C) MPPTCL can lease out the fibers to BSNL at the nominal rates say Rs. 2000/- per fiber per Km per annum, then BSNL can hire 1000-2000 Km of OFC as done in the other States.

4. In view of this, we are exploring other options where entire network can be monetized. In this endeavour, MPPTCL has issued Expression of Interest (EOI) for Operation, Maintenance and Leasing of spare Dark Fibers of OPGW Network for commercial use on dtd. 07.11.2022. The Pre-bid Conference with the various stake holders was held on dtd. 22.11.2022. Representatives of M/s PGCIL, M/s Sterlite, M/s Airtel, M/s SIFY and M/s Lightstorm have attended the Pre-bid Conference. During Pre-bid Conference, the views of various stake holders have been obtained. It is pertinent to mention here that most of the bidders have requested to permit them to bid for part quantity of fiber in the range of 500 to 1000 fiber pair km and also shift the responsibility of Operation and Maintenance on MPPTCL. During Pre bid conference, the prospective bidders have also informed that most of the transmission utilities are following above model for leasing of dark fiber.

5. It is pertinent to mention here that various transmission utilities have leased Dark Fibers to the telecom operators / Internet Service Providers. A comparative study of RFPs issued by some of the transmission utilities viz. U.P. Power Transmission Corporation Ltd, (UPPTCL), Bihar State Power Transmission Company Ltd., (BSPTCL), West Bengal State Electricity Transmission Company Ltd., (WBSETCL), reveals that bidders are permitted to bid for minimum 500 to 1000 fiber pair km. The Agreement period has been fixed as 15 years by UPPTCL whereas RFP of BSPTCL and WBSETCL provides for agreement period as 10 years extendable upto 5 years on mutually agreed terms. Further these Transmission Utilities have also fixed a floor price varying from Rs. 12,500/- to Rs. 13,800/- per fiber pair per km per annum (excluding GST) for the first year and 5% escalation on lease rent in subsequent years. The operation and maintenance of the fibers are the responsibility of the concerned Transmission Utilities. A comparative statement of RFP indicating important parameters of the bidding is annexed as **Statement -I**.



It inter-alia means that all the above transmission utilities have permitted the bidders to bid for part quantity and O&M of the OPGW is the responsibility of these transmission utilities. However, MPPTCL has issued EOI to explore the possibility of monetization of entire OPGW network and responsibility of O&M rests with the Service Provider.

It is worthwhile to mention here that M/s Sterlite have shown their interest to take entire network on PPP route through their subsidiary. However, they desire exclusive rights to use the fiber. They are also ready to carry out operation and maintenance of entire OPGW network. Further, two more firms have recently expressed their interest to take entire network on PPP mode with responsibility of operation and maintenance of entire OPGW network.

Since most of the bidders have requested to allow them to bid for part quantity of OPGW and also considering the fact that most of the transmission utilities are following the model to allow bidders to bid for part quantity, we may consider to issue RFP for Leasing of spare dark fibers available with us considering following bidding parameters:

S. No.	Particulars	Proposed bidding parameter
1	Maximum pairs of Dark Fiber available for Leasing	Eight Pairs
2	Pairs of Dark Fiber considered for Leasing	Four Pairs
3	Minimum bidding quantity	1000 fiber pair Km
4	Minimum & Maximum pair of fiber allowed to Bid	Minimum One pair and maximum upto four pairs
5	Agreement period	10 years extendable upto 5 years on mutually agreed terms.
6	Floor Price	Rs. 16,500/- per fiber pair per Km per Annum (incl. O&M charges and excl. GST) for First year and 5% escalation on lease rent in subsequent years.
7	Co-location Charge (Space – 4FTx4FT), subject to availability	Rs. 3,00,000/- per Annum for the first year and 5% escalation in subsequent years.

8	Bidding Parameter	Lease Rent per pair of dark fiber per km per annum for first year for each Line/Link and shall not be less than Floor price.
9	Award Criteria	Allotment of fibers shall be done at highest rate (H1).
10	Operation & Maintenance of the fiber	M.P. Power Transmission Co. Ltd.
11	Guaranteed Availability of Fibers under Service Level Agreement	98%

The firms interested to take full quantity of dark fibers, can participate in the RFP process and take the fibers on terms and conditions provided in the RFP. Regarding request of M/s BSNL, it is to submit that they may also participate in the RFP process and take the fiber on selected routes on terms and conditions provided in the RFP.

It is pertinent to mention here that the proposal for monetization of Spare Dark fibers of OPGW Network was put up before Board of Directors in the 116th meeting held on dtd. 28.12.2022. The Board accorded approval for leasing of Spare Dark fibers of OPGW Network of the company subject to necessary approvals. It was also desired by the Board that a detailed presentation be made in this respect. Accordingly, a detailed presentation was made in the Energy Department, Govt. of MP. In view of above, the case for issue of RFP for leasing of Spare Dark fibers is put up before the Board of Directors for kind consideration.

Since, Expression of Interest invited to explore the other options where entire network can monetized is fulfilled, as such, it is proposed to drop the Expression of Interest (EOI) issued by MPPTCL for Operation, Maintenance and Leasing of spare Dark Fibers of OPGW Network for commercial use.

It is to mention here that application for Infrastructure Provider Category-I (IP-I) registration required for leasing of dark fibers has been submitted to Department of Telecom, Govt. of India vide letter dtd. 08.02.2023.



6. **Proposal** : In view of position explained above, it is proposed that Request for Proposal may be issued for leasing of spare dark fiber as detailed above and drop Expression of Interest (EOI) issued for Operation, Maintenance and Leasing of spare Dark Fibers of OPGW Network.

7. Considering above, the proposal in para 6/N is submitted for approval of the Board of Directors and passing a Resolution as per annexed draft, with or without modifications.

APPROVED BY

MANAGING DIRECTOR
MPPTCL


CE (Procurement)

Handwritten notes and signatures:
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03/03
03/03/23
13/

Statement – I

Comparative statement of Tenders floated by various Transmission utilities for Leasing of Dark Fiber				
S. No.	Particulars	UP Power Trans. Corporation Ltd., Lucknow	Bihar State Power Trans. Co. Ltd.	West Bengal State Electricity Trans. Co. Ltd.
1	Network	10,000 Km	7,500 Km	5,000 Km
2	Minimum bidding quantity	1000 Fiber-pair-km.	500 Fiber-pair-km.	800 Fiber-pair-km.
3	Minimum pair of fiber to bid	1 Pair	1 Pair	1 Pair
4	Agreement Period	15 years	10 years extendable upto 5 years on mutually agreed terms.	10 years extendable upto 5 years on mutually agreed terms.
5	Floor Price	Rs. 12500/- per fiber pair per Km per Annum (Excl. GST) in First year and 5% escalation on lease rent in subsequent years.	Rs. 12600/- per fiber pair per Km per Annum (Excl. GST) in First year and 5% escalation on lease rent in subsequent years.	Rs. 13800/- per fiber pair per Km per Annum (Excl. GST) in First year and 5% escalation on lease rent in subsequent years.
6	Co-Location Charge (Space -4Ft x 4Ft) AC/DC supply subject to availability.	Rs. 1,50,000/- per Annum for the first year and 5% escalation in subsequent years.	Rs. 2,62,500/- per Annum for the first year and 5% escalation in subsequent years.	Rs. 3 lac to 4 lac per Annum for the first year and 5% escalation in subsequent years.
7	Operation and Maintenance of the Fiber	UP Power Transmission	Bihar State Power Trans. Co. Ltd.	West Bengal State Electricity Trans. Co. Ltd.

(Handwritten signatures)

Provided also that such surcharge shall not be leviable in case open access is provided to a person who has established a captive generating plant for carrying the electricity to the destination of his own use.

Section 41. (Other business of transmission licensee):

A transmission licensee may, with prior intimation to the Appropriate Commission, engage in any business for optimum utilisation of its assets:

Provided that a proportion of the revenues derived from such business shall, as may be specified by the Appropriate Commission, be utilised for reducing its charges for transmission and wheeling:

Provided further that the transmission licensee shall maintain separate accounts for each such business undertaking to ensure that transmission business neither subsidises in any way such business undertaking nor encumbers its transmission assets in any way to support such business:

Provided also that no transmission licensee shall enter into any contract or otherwise engage in the business of trading in electricity :

M.P. Power Transmission Co. Ltd.

(A fully owned company of the Government of Madhya Pradesh)



REQUEST FOR PROPOSAL FOR LEASING OF SPARE DARK FIBERS OF OPGW NETWORK FOR COMMERCIAL USE

TENDER SPECIFICATION No.TR-17/2023

CHIEF ENGINEER (PROCUREMENT)

Block No.3, SHAKTI BHAWAN, RAMPUR, JABALPUR.

Tel.No.0761-2702146, 2702123, 2702156

Fax No.0761-2665593

E-mail: mptransco@nic.in

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DISCLAIMER

The information contained in this Request for Proposal document (“RFP”) or subsequently provided to Bidders, whether verbally or in documentary or any other form by or on behalf of the Authority or any of its employees or advisers, is provided to Bidders on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an agreement and is neither an offer nor invitation by the Authority to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in the formulation of their Proposals pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by the Authority in relation to the Leasing. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the Authority, its employees or advisers to consider the objectives, technical expertise and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in this RFP, may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP to the Bidders is on a wide range of matters, some of which depends upon interpretation of law. The information given is not an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. The Authority accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on the law expressed herein.

The Authority, its employees and advisers make no representation or warranty and shall have no liability to any person including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, reliability or completeness of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way in this Bidding Process.

The Authority also accepts no liability of any nature whether resulting from negligence or otherwise however caused arising from reliance of any Bidder upon the statements contained in this RFP.

The Authority may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumption contained in this RFP.

The issue of this RFP does not imply that the Authority is bound to select an Bidder or to appoint the Selected Bidder, as the case may be, for the Leasing and the Authority reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the Authority or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Bidder and the Authority shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an Bidder in preparation or submission of the Proposal, regardless of the conduct or outcome of the Bidding Process.

SECTION – 1

INTRODUCTION

1. INTRODUCTION

1.1 Background:

The Madhya Pradesh Power Transmission Co. Ltd., a fully owned company of the Government of Madhya Pradesh, having registered office at Block No. 2, Shakti Bhawan, Rampur, Jabalpur, acting in its capacity as the State Transmission Utility (the “Authority”) in the State of Madhya Pradesh, engaged in the development of a state transmission grid with a view to increasing and improving the supply of electricity. Further, to facilitate internal communication and uses, MPTRANSCO has installed about 4000 Km of 24 Fiber OPGW network. Now, MPTRANSCO is also establishing a network of 24 fiber OPGW having length of about 11000 Km. under PSDF scheme of Govt. of India, for internal communication systems and uses. The entire OPGW network is expected to be ready by May’2023. The total OPGW network created by the MPTRANSCO is referred as “MP Power Transnet Project” or “Project”. Out of 24 fibers, 8 fibers are reserved for MPTRANSCO’s internal use. Rests of the fibers are available for commercial use. **However, initially, only four pairs of dark fibers have been considered for leasing under this RFP.** ‘OPGW Network Map of MPPTCL’ is enclosed as **Annexure-I**, and ‘List of MPPTCL OPGW Fiber Links’ connected to various Grid sub-stations are enclosed as **Annexure-II**.

1.2 Request for Proposal:

The Authority intends to select the Bidder through an open competitive Bidding process in accordance with the procedure set forth herein. The Authority invites Proposals (the “Proposals”) electronically on e-procurement portal at <https://mptenders.gov.in> from eligible Bidders. The Bidders are allowed to submit their offer electronically on e-procurement portal subject to fulfilling eligibility and qualifying criteria as prescribed in the RFP.

MPPTCL intends to lease out minimum number of One pair of dark fiber (Two fibers) and maximum up to Four pairs (Eight fibers) of Dark Fiber in all the sections as given in **Annexure-II** to the reputed Telecom Service Provider including but not limited to Mobile Network Providers, Telecom Operator, Broadband Service Provider, Telecom Infrastructure Service Provider or Internet Service Provider. Fibers shall be leased on as is where is basis. Bidders are free to choose their route and bid accordingly. Bidder shall have to bid for the entire line / link only. **The Lines / Links shall be collection of links** from existing OPGW Network of MPPTCL in entire Madhya Pradesh whose ownership lies with MPPTCL. ***The rate for entire link shall be common for all links and based on per fiber pair per Km per annum and shall not be less than floor (reserve) price of MPPTCL.*** The overall route km shall not be less than 1,000 fiber pair km in all respect otherwise the bid will be rejected.

1.3 Sub-Lease:

The bidder will not be allowed to sub-lease the leased out fibers to third party. The bidder can only allocate telecommunication services build on the offered fibers to its customers. They will have to install the required equipment for smooth operations.

1.4 Bidding Methodology:

Fiber pair(s) shall be leased to the Bidders initially for 10 (Ten) years. This period can be extended by up to 5 years upon mutual Agreement. Bidder has to quote their highest Leasing Rate per pair of dark fiber per km per annum for a particular Line/Link for First Year. Lease Rent per pair of dark fiber per km per annum for first year is the bid parameter for each

Line/Link. The selection will be made based on the Rate for the first year of lease. The lease rent shall increase by 5% per annum on compounding basis for second year and onwards. There shall be upfront payment of annual lease rent at the beginning of each year.

1.5 Due diligence by Bidders:

Bidders are encouraged to inform themselves fully about the details and the local conditions before submitting the Proposal by paying a visit to the Authority and the Project site, sending written queries to the Authority and attending a Pre-Proposal Conference on the date and time specified in clause 1.11.

1.6 Sale of RFP Document:

The RFP documents can be purchased ONLY online. The RFP document shall be available for purchase to concerned eligible Bidders immediately after online release of the RFP document and up to scheduled date and time as set in the Key Dates. The RFP document can be downloaded without making any payment; however the same cannot be used for Bid submission. The Bidders are requested to download the RFP document and read all the terms and conditions mentioned in the RFP Document and seek clarification, if any, from the Bid Inviting Authority. Arrangements have been made for the Bidders to make payments online. It is mandatory for all the Bidders to pay RFP document Fee to participate in the Tender.

The Bidders can purchase the RFP documents online from website <https://mptenders.gov.in> by making online payment towards RFP document fees of **Rs. 11,800/- (including GST)** using the service of the secure electronic payments gateway integrated in to the e-Procurement System, and should print out the system generated receipt for their reference which can be produced whenever required. Service and gateways charges shall be borne by the Bidders.

If the RFP is dropped without opening, the RFP fee shall be refunded after deduction of necessary portal charges. Manual purchase of RFP is not allowed.

1.7 Validity of the Proposal:

The Proposal shall be valid for a period of not less than 180 days from the Proposal Due Date (the "PDD"). A bid valid for a shorter period shall be rejected by the Company as non-responsive.

In exceptional circumstances, Authority may solicit the bidder's consent for extension of the period of validity. The request and the response thereto shall be made in writing (including email or through tender portal). The EMD provided shall also be extended by the same period as the extension in the validity of the bid. A bidder may decline such a request for extension beyond original bid validity period. In such a case, EMD will not be liable for forfeiture.

1.8 Brief description of the Selection Process:

The Authority has adopted two stage selection process in evaluating the Proposals comprising technical and financial proposal to be submitted in two separate envelopes online. In the first stage, a technical evaluation will be carried out as specified in the RFP. Based on this technical evaluation, a list of qualified Bidders shall be prepared. In the second stage, financial evaluation will be carried out. Proposals will finally be ranked according to their financial offers from highest to lowest as specified in Clause 2.24. The first ranked Bidder (the H1) shall be the Selected Bidder for leasing while the other ranked Bidder (H2, H3,...)

will be kept in reserve and shall be considered for leasing of remaining pairs as specified in Clause 2.27 of the RFP.

1.9 Currency conversion rate:

For the purposes of technical evaluation of Bidders, Rs. 60 per US\$ shall be considered as the applicable currency conversion rate. In case of any other currency, the same shall first be converted to US\$ as on the date 60 (sixty) days prior to the Proposal Due Date, and the amount so derived in US\$ shall be converted into INR at the aforesaid rate. The conversion rate of such currencies shall be the daily representative exchange rates published by the International Monetary Fund for the relevant date. In such cases, the conversion rate of applicable currency (duly certified by Chartered Accountant) shall be provided by the Bidder.

1.10 Schedule of Bidding Process:

The Authority would endeavor to adhere to the **Schedule of Bidding Process** described in the Key Dates. However some of the Events' Schedule is as under:

S. No.	Event Description	Date
1	Sale of RFP Document online	10.04.2023
2	Pre-Proposal Conference	25.04.2023
3	Last date for receiving queries/clarifications	28.04.2023
4	Authority response to queries	08.05.2023
5	Proposal Due Date or PDD (Opening of Proposal)	As per Key Dates
6	Validity of Proposals	180 days from Proposal Due Date

1.11 Pre-Proposal Conference:

The date, time and venue of Pre-Proposal Conference shall be:

Date: 25.04.2023
Time: 15.30Hrs.
Venue: Conference Hall,
Director (Technical)
MPPTCL, Block No. 3,
Shakti Bhawan, Rampur,
Jabalpur-482008

1.12 Communications:

All communications including submission of Proposal should be addressed to:

Chief Engineer (Procurement)
Madhya Pradesh Power Transmission Co. Ltd.
Block No. 3, Shakti Bhawan,
Rampur, Jabalpur-482008

PHONE No.: 0761- 2702146/2702123/2702156

FAX No.: 0761-2665593

E-MAIL ADDRESS: mptransco@nic.in

(a) The Official Website of the Authority is:

<https://www.mptransco.in>

(b) Address of e-portal:

<https://mptenders.gov.in>

All communications, including the envelopes, should contain the following information, to be marked at the top in bold letters:

TENDER SPECIFICATION No. TR-17/2023	LEASING OF SPARE DARK FIBERS OF OPGW NETWORK FOR COMMERCIAL USE
--	--

SECTION-2

INSTRUCTIONS

TO

BIDDERS

2. INSTRUCTIONS TO BIDDERS

A. General

2.1 Scope of proposal:

2.1.1 General:

MPPTCL intends to lease out Minimum of one pair of fiber (Two fiber) and Maximum up to four fiber pairs (Eight fiber) of Dark Fiber in all the Line/Links shown at **Annexure-II** to the eligible Telecom/Internet Service Providers for a period of 10 (Ten) years. This period can be extended up to next 5 years on mutually agreed terms.

2.1.2 Quantity to quote:

Bidders are permitted to bid for minimum of one pair of fiber (two fiber) and maximum upto four pair of dark fibers (eight fiber) covered in the RFP. Fibers shall be leased on **as is where is basis**. Bidders are free to choose their route and bid accordingly. However, Bidder shall have to bid for the entire line / link only. The overall route fiber pair km shall not be less than 1,000 fiber pair km in all respect otherwise the bid shall be rejected.

2.1.3 Floor Price (Reserve Price):

The Floor price for leasing of dark fiber shall be Rs. 16,500/- per Fiber Pair per Km per Annum (including O&M charges) (exclusive of GST) for first year and escalation @ 5% per annum on compounding basis for subsequent years.

2.1.4 Tapping of fibers:

Bidders are to quote for the entire line/link. Bidders shall be permitted to join last mile fiber / interconnecting fiber at the MPPTCL substations only. On case to case basis with prior approval of MPPTCL, tapping of fibers may be allowed at splice box / junction box locations on the specified sections near to the bidder location. However, in such a case, Bidder has to pay for the required fiber pairs of that entire link (End to End) if they want to tap the fibers in middle of a Link.

2.1.5 Co-location:

MPPTCL may provide space (4Ftx4Ft) for installation of necessary Terminal Equipments required for providing Telecommunication services and power supply in control room/carrier room of its substation subject to availability. An amount of Rs. 3,00,000=00 (Rupees Three Lakh only) per annum per substation shall be charged for the same for first year of lease. The rent shall be increased @ 5% per annum on compounding basis for second year as well as in each subsequent year. Power Supply and AC facility in control room / carrier room shall be provided subject to availability without any additional cost. However, if additional AC is required by any bidder, then successful bidder shall have to arrange AC with Power facility at their own. The entire cost towards additional infrastructure including Power supply charges as per actual shall be borne by bidder.

However, where space is not available in Carrier Room or Control Room to accommodate the Rack (size 4ft X 4ft) for installation of terminal equipment of the successful bidder, in that case, a suitable space 8ft X 10ft may be provided in the premises of substation for making their AC room (Shed/Shelter) on temporary basis. The rate, terms and conditions shall be as detailed below:

- a) Rs 1,000 per Sq. feet (as per actual) per annum for space only. Only open space shall be provided by MPPTCL. The rent shall be increased @ 5% per annum on compounding basis for second year as well as in each subsequent years.
- b) Any extra space required shall be charged in proportion to the rates specified subject to the availability and sole discretion of MPPTCL.
- c) AC/DC supply, Air conditioning and Shed/Shelter shall be arranged by bidder at their own cost.
- d) The AC Power required for terminal equipments of the successful bidder at the MPPTCL Sub-Stations shall be taken separately from the Local Distribution office by the successful bidder. However, MPPTCL shall provide necessary assistance, NOC and Documents etc.

Co-location charges are exclusive of GST.

2.1.6 Quote:

Bidders shall quote their highest Leasing Rate per Pair of Dark fiber per Km per Annum for a particular route for First Year. The lease rent will increase by 5% (Five percent) per year on compounding basis for second year and onwards. The Co-location charge is not required to be quoted by bidder. However, for the places where MPPTCL cannot accommodate their equipment in existing building, the successful bidder shall have to make their own arrangement. MPPTCL shall extend support in getting power supply connection from DISCOM. The Co-location charge will increase by 5% per annum on compounding basis in second year and onwards. **There shall be upfront payment of annual lease rent and co-location charges at the beginning of each year.**

Bidders shall submit their Co-Location space requirements at MPPTCL sub-stations as per Appendix-I, Form-12.

2.1.7 Cyber Security Guidelines applicable for awarded Bidder(s):

- a) Bidders shall follow all Cyber Security Guidelines not limited to the advisories, guidelines, requirements at present as well as in future, defined by MoP/ MeitY/ CEA/ CERT-In/ CERT-Trans/ CERT-Go/ CERC/ MPERC/ POSOCO/ WRLDC strictly and also mandatorily to follow CEA Cyber Security Guidelines 2021 or any other new guidelines issued by the Govt. of India time to time.
- b) For the equipment in MPPTCL premises and connected on MPPTCL network, the Bidder shall update/replace the software/hardware timely as per requirement/ guidelines/ advisories without any additional cost to MPPTCL.
- c) The Bidder shall carry out inspection or sample testing of the IT/OT equipment to be connected on MPPTCL network before the supply of the materials as per prescribed Annexure A & B of CEA Cyber Security Guidelines 2021.
- d) The Bidder shall adhere to CEA Cyber Security Guidelines 2021 particularly Article 4 and Article 14 for Cyber Security Audit and VAPT wherever required.

2.2 Definitions: The following words and expressions shall have the meanings hereby assigned to them:

“Bid(s)” shall mean the proposal submitted by the Bidder(s) in response to the RFP invited by the Authority through Notice Inviting Tender (NIT) published in the News Paper(s)/Electronics Platform(s) under Single Stage Two Part bidding system (Part-I: Techno-Commercial Bid & Part-II: Price Bid).

“Bidder(s)” shall mean Corporate entity(ies) incorporated under Companies Act 1956 / 2013 and qualifies eligible criteria and engaged in the Telecom or Internet services who has shown interest and submitted their bid through the official e-tender Portal of the Authority, against the Notice Inviting Tender (NIT) published in the Newspaper(s)/ Electronic Platform(s). **The equity Joint Ventures registered under Companies Act as separate legal entity are permitted to participate in the tender. However, Consortium/Association of Firms and Joint Ventures formed through Consortium/ Joint Venture Agreement are not allowed to participate in this tender.**

“Lease Agreement” means the Lease Agreement entered into between the Authority and the Lessee, together with the documents referred to therein; shall constitute the Lease Agreement.

“Lessee” means the successful bidder, who has been issued the Letter of Intent by the Authority and with whom, Lease Agreement has been signed. It also includes the legal successors or permitted assigns of the Lessee.

“RFP Document” shall mean the document(s) prepared by the Tender Issuing Authority for the purpose of Leasing of Spare OPGW Dark Fiber and available on official e-tender portal of the Authority and shall include Corrigendum/ Errata/Amendment/Clarification issued by the Authority during the bidding process from time to time.

“e-Tender Portal” shall mean the official e-tender portal, “<https://mptenders.gov.in>” used by MPPTCL for the purpose of invitation of Bid(s) through electronic mode.

“Letter of Intent (LOI)” shall mean the letter issued in favor of the successful bidder intimating the award of Lease subject to compliance of certain conditions, if any, prior to signing of Lease Agreement.

“Highest Bidder (H-1)” shall mean the bidder whose price quote is found to be highest after price bid evaluation.

“Company/Authority” shall mean Madhya Pradesh Power Transmission Company Limited (MPPTCL), Jabalpur, a MP Govt. undertaking and shall include its Legal Representatives, Successors or Permitted Assigns.

“Financial Proposal(s)” shall mean the Part-II of Bid offered by the Bidder(s) against the RFP invited by the Authority.

“Tender Issuing Authority” shall mean the Chief Engineer (Procurement), MPPTCL, Jabalpur from whom the tender has been issued.

“Tender” shall mean the open tender invited by the Company for the purpose of Leasing Out Spare OPGW Dark Fiber on single stage two-part bidding system.

“Techno-Commercial Bid(s) / Technical Proposal(s)” shall mean the Part-I of Bid submitted by the Bidder as per the instructions and guidelines given in the bidding documents for the purpose of meeting the qualifying criteria against the tender invited by the Authority.

“Techno-Commercially Qualified Bidder(s)” shall mean the bidder(s) who fulfills the minimum Technical, Financial and other qualifying criteria prescribed in the tender.

“Tender” and “RFP” shall have same meaning for the purpose of this document and may be used interchangeably.

“Applicant” and “Bidder” shall have same meaning for the purpose of this document and may be used interchangeably.

“Application”, “Proposal” and “Bid” shall have same meaning for the purpose of this document and may be used interchangeably.

“Financial Proposal”, “Financial Bid” and “Price Bid” shall have same meaning for the purpose of this document and may be used interchangeably.

“Lease Agreement” and “Contract” shall have same meaning for the purpose of this document and may be used interchangeably.

“Contract Period” and “Agreement Period” shall have same meaning for the purpose of this document and may be used interchangeably.

“Selection Process” and “Bidding Process” shall have same meaning for the purpose of this document and may be used interchangeably.

“Line/Link” shall mean complete OPGW length between two directly connected substations for the purpose of bidding and SLA parameters including calculation of penalty.

“Handover Certificate” shall mean Hand over Take over Certificate as per Schedule-II, which shall be signed at the time of handing over of Fibers on MPPTCL network.

“Cyber Security Guidelines” shall mean all advisories, guidelines, requirements at present as well as in future, defined by MoP/ MeitY/ CEA/CERT-In/ CERT-Trans/ CERT-Go/ CERC/ MPERC/ POSOCO/ WRLDC strictly and also mandatorily to follow CEA Cyber Security Guidelines 2021/2022 or any other new guidelines issued by the Govt. of India time to time.

2.3 Eligibility & Qualifying requirement:

2.3.1 General:

This bid is open to prospective bidder(s) incorporated under the Companies Act-1956/ Companies Act-2013 having domicile in India engaged in Telecom Business who meets the following qualifying requirement independently:

S. No.	Parameter	Eligibility/Qualifying Requirement	Documents to be submitted by Bidder to ascertain meeting of qualification requirement
1.	Registration	Registered under the Companies Act 1956 or 2013	Certificate of Incorporation
2.	Telecom License and Registration	<p>1) Bidder should be a Telecom Service provider / Internet Service Provider registered in India.</p> <p>2) Interested bidder shall be in possession of valid Telecom Licence (ISP/Unified licence/NLD license), granted by the Department of Telecommunications, Government of India.</p>	Bidder's to submit applicable licence copy and relevant documents.
3.	Financial Capability	<p>1) Bidder shall have average annual turnover (excluding non-operating income) of minimum Rs. 120 Crore (MAAT) for last three financial years. In case the Bidder is in existence for less than three Financial Years, the MAAT shall be average of the turnover of the completed number of Financial Years(s).</p> <p style="text-align: center;">Or</p> <p>Bidder who fails to meet MAAT but agrees to deposit Annual Lease Rent for Five Years as a Bullet Payment instead of one year before signing of Lease Agreement on Net Present Value (NPV) basis considering discount rate of 5% per annum. The Bidder is required to furnish an additional undertaking to this effect in the prescribed format (Appendix-I, Form-8). Bidder who fails to qualify MAAT and does not submit the additional undertaking shall stand disqualified.</p> <p>2) The Net worth of the Bidder as per last year Audited Financial Accounts should be positive, i.e. total assets less total outside liabilities should be positive.</p> <p>3) The bidders, who are in existence for less than one complete financial year, shall not be eligible for Bid.</p>	<p>The Bidder shall furnish details in prescribed format (Form-7, Undertaking-II) duly certified by Practicing Chartered Accountant based on audited "standalone" financial statements for the last three financial years i.e., (if the bid is due for submission after September) or three financial years before last financial year (if the bid is due for submission before October) and the details certified in the above format (Form-7, Undertaking-II) shall be considered as final. The criteria shall be evaluated by the Practicing Chartered Accountant</p> <p style="text-align: center;">AND</p> <p>Undertaking for Bullet Payment as per Appendix-I, Form-8 (if applicable)</p>

4.	<p>Historical Poor Performance of Bidders And Pending Litigation</p>	<p>a) The bidder(s) who stand currently debarred/blacklisted by MPPTCL or other successor Companies of MPSEB / Any PSU of MP / Govt. of MP or any State Govt./ Central Govt. Department or any PSU of a State in India or any CPSU of Central Government as on the final date of submission of bid/proposal shall not be eligible to participate in this tender. The debarring / blacklisting should not be alive / active on the final date of submission of tender.</p> <p>b) Bidders shall submit declaration that all litigation, arbitration and other claims whether pending, threatened or resolved in the last three financial years (and the current financial years),, with the exception of immaterial claims with cumulative possible impact of less than 100% of the bidder's net worth. The Authority may disqualify bidder in the event that the total amount of pending or threatened litigation, arbitration or other claims represents hundred percent (or more) of the bidder's net worth.</p> <p>c) The bidder(s) should not have any pending litigation with MPPTCL with regard to any works/service contract or related activity. Bidder shall not be eligible to participate in the tender, if bidder(s) have any pending litigation with MPPTCL.</p> <p>d) The bidder should disclose, in case, it has been referred to NCLT (National Company Law Tribunal). The bid shall be liable for rejection if bidder has been declared as Insolvent or referred to National Company Law Tribunal (NCLT) under the Insolvency and Bankruptcy Code (IBC), 2016. Non-disclosure of this fact by the bidder will also lead to rejection of the bid or termination of the Lease Agreement with forfeiture of EMD and/or Contract Performance Bank Guarantee (PBG).</p>	<p>Appendix-I Form-1 and Form-6</p>
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Further to meeting above, it may please be noted that any bidder from such countries sharing a land border with India will be eligible to bid if the bidder is registered with the Competent Authority, under the provisions of Order no. F.No.6/18/2019-PPD (Order Public Procurement no.1) dated 23/07/2020 regarding “Restriction under Rule 144(xi) of General Financial Rules” and F.No.6/18/2019-PPD (Order Public Procurement no.2) dated 23/07/2020 regarding “Exclusion from Restrictions under Rule 144(xi) of the General Financial Rules” issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India [hereinafter collectively referred as “DoE Order”] and any subsequent modifications/Amendments, if any.

The competent authority for registration will be the registration committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT),

Accordingly, the Bidder, must read the clause regarding restrictions on procurement from a ‘Bidder of a country which shares a land border with India’ and on sub-contracting to contractors from such countries and furnish certificate as per Appendix-I, Form-9.

2.4 Conflict of Interest:

- 2.4.1 An Applicant shall not have a conflict of interest that may affect the Selection Process (the “**Conflict of Interest**”). Any Applicant found to have a Conflict of Interest shall be disqualified. In the event of disqualification, the Authority shall forfeit and appropriate the Bid Security as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for, *inter alia*, the time, cost and effort of the Authority including consideration of such Applicant’s Proposal, without prejudice to any other right or remedy that may be available to the Authority hereunder or otherwise.
- 2.4.2 Without limiting the generality of the above, an Applicant shall be deemed to have a Conflict of Interest affecting the Selection Process, if:
- (a) the Applicant, its consortium member (the “**Member**”) or Associate (or any constituent thereof) and any other Applicant, its consortium member or Associate (or any constituent thereof) have common controlling shareholders or other ownership interest; provided that this disqualification shall not apply in cases where the direct or indirect shareholding or ownership interest of an Applicant, its Member or Associate (or any shareholder thereof having a shareholding of more than 5% (five per cent) of the paid up and subscribed share capital of such Applicant, Member or Associate, as the case may be) in the other Applicant, its consortium member or Associate is less than 5 per cent of the subscribed and paid up equity share capital thereof; provided further that this disqualification shall not apply to any ownership by a bank, insurance company, pension fund or a public financial institution referred to in section 4A of the Companies Act, 1956. For the purposes of this Clause 2.4.2(a), indirect shareholding held through one or more intermediate persons shall be computed as follows: (aa) where any intermediary is controlled by a person through management control or otherwise, the entire shareholding held by such controlled intermediary in any other person (the “**Subject Person**”) shall be taken into account for computing the shareholding of such controlling person in the Subject Person; and (bb) subject always to sub-clause (aa) above, where a person does not exercise control over an intermediary, which has shareholding in the Subject Person, the computation of indirect shareholding of such person in the Subject Person shall be undertaken on a proportionate basis; provided, however, that no such shareholding shall be reckoned under this sub-clause (bb) if the shareholding of such person in the intermediary is less than 26% (twenty six per cent) of the subscribed and paid up equity shareholding of such intermediary; or

- (b) a constituent of such Applicant is also a constituent of another Applicant; or
- (c) such Applicant or its Associate receives or has received any direct or indirect subsidy or grant from any other Applicant or its Associate; or
- (d) such Applicant has the same legal representative for purposes of this Application as any other Applicant; or
- (e) such Applicant has a relationship with another Applicant, directly or through common third parties, that puts them in a position to have access to each others' information about, or to influence the Application of either or each of the other Applicant;

For purposes of this RFP, Associate means, in relation to the Applicant, a person who controls, is controlled by, or is under the common control with such Applicant (the "Associate"). As used in this definition, the expression "control" means, with respect to a person which is a company or corporation, the ownership, directly or indirectly, of more than 50%(fifty per cent) of the voting shares of such person, and with respect to a person which is not a company or corporation, the power to direct the management and policies of such person by operation of law or by contract.

2.5 Number of Proposals/Alternative Bids and/or Conditional Bids:

Alternative or conditional bids like alternative time schedule, alternative commercial conditions, price preference etc. and or any conditional bid whatsoever, shall not be allowed and considered.

In the event alternative or conditional bid is submitted by the bidder and the same is discovered during any stage of the evaluation, in such case, their bid shall be summarily rejected.

No Applicant or its Associate shall submit more than one Application. An Applicant applying individually or as an Associate shall not be entitled to submit another application.

2.6 Currencies of Bid and Payment:

The currency of the bid and payments shall be Indian Rupees (INR) only.

2.7 Cost of Proposal:

The Applicants shall be responsible for all of the costs associated with the preparation of their Proposals and their participation in the Selection Process including subsequent consultation, visits to the Authority, Project site etc. The Authority will not be responsible or in any way liable for such costs, regardless of the conduct or outcome of the Selection Process.

2.8 Site visit and verification of information:

Applicants are encouraged to submit their respective Proposals after visiting the Project site and ascertaining for themselves the site conditions, traffic, location, surroundings, climate, access to the site, availability of drawings and other data with the Authority, Applicable Laws and regulations or any other matter considered relevant by them. Bidder may identify the space for Co-location points, Terminal Points of Fibers and its surroundings and obtain all information that may be necessary for preparing the bid. The map depicting OPGW Network on MPTRANSCO's Transmission assets is enclosed in this regard as **Annexure-I**.

2.9 Acknowledgement by Applicant:

It shall be deemed that by submitting the Proposal, the Applicant has:

- (a) made a complete and careful examination of the RFP;
- (b) received all relevant information requested from the authority;
- (c) acknowledged and accepted the risk of inadequacy, error or mistake in the information provided in the RFP or furnished by or on behalf of the Authority or relating to any of the matters referred to in Clause 2.8;
- (d) satisfied itself about all matters, things and information, including matters referred to in Clause 2.8 herein, necessary and required for submitting an informed Application and performance of all of its obligations there under;
- (e) acknowledged that it does not have a Conflict of Interest; and
- (f) agreed to be bound by the undertaking provided by it under and in terms hereof.

The Authority shall not be liable for any omission, mistake or error on the part of the Applicant in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP or the Selection Process, including any error or mistake therein or in any information or data given by the Authority.

2.10 Right to reject any or all Proposals:

2.10.1 Notwithstanding anything contained in this RFP, the Authority reserves the right to accept or reject any Proposal and to annul the Selection Process and reject all Proposals, at any time without any liability or any obligation for such acceptance, rejection or annulment, and without assigning any reasons thereof.

2.10.2 Without prejudice to the generality of Clause 2.10.1, the Authority reserves the right to reject any Proposal if :

- (a) at any time, a material misrepresentation is made or discovered, or
- (b) the Applicant does not provide, within the time specified by the Authority, the supplemental information sought by the Authority for evaluation of the Proposal.

Misrepresentation/ improper response by the Applicant may lead to the disqualification of the Applicant. If such disqualification / rejection occurs after the Proposals have been opened and the highest ranking (H1) Applicant gets disqualified / rejected, then the Authority reserves the right to consider the next best Applicant(s) in the order of H2, H3,.... or take any other measure as may be deemed fit in the sole discretion of the Authority, including annulment of the Selection Process.

B. Documents Comprising the Bid

2.11 Sections of Bidding Documents:

The Bidding Document consists of Part-I & II, which inter alia include all the Sections indicated below, and should be read in conjunction with any Addenda/ corrigendum/ errata/ clarification/amendment issued prior to the deadline of submission of bid and also Disclaimer set forth hereinabove .

Part- I Bidding Documents:

Section 1 - Introduction

Section 2 - Instructions to Bidders (ITB)

Section 3 - General Conditions of Contract (GCC)

Section 4 - Appendices, Forms, Schedules & Annexures

Part-II Financial Proposal:

Financial Proposal in .xls Sheet will be available in the official e-tender portal of MPPTCL.

Financial Proposal (in .xls format) shall be filled in by the Bidder(s) and uploaded on the official e-Tender Portal of MPPTCL only.

The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.

2.12 Clarifications:

Bidders requiring any clarification on the RFP may send their queries to the Authority in writing before the date mentioned in the Schedule of Bidding Process at Clause 1.10. The envelopes shall clearly bear the following identification:

“Queries/Request for Additional Information against Tender Specification No. TR-17/2023 for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use

The Authority shall endeavor to respond to the queries within the period specified therein but not later than 7 (seven) days prior to the Proposal Due Date. The responses will also be uploaded on the website <https://mptenders.gov.in>.

The Authority reserves the right not to respond to any question or provide any clarifications, in its sole discretion, and nothing in this Clause 2.12 shall be construed as obliging the Authority to respond to any question or to provide any clarification.

2.13 Amendment of RFP Documents:

At any time prior to the deadline for submission of Proposal, the Authority may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the RFP document by the issuance of Addendum / Amendment and posting it on the e-portal <https://mptenders.gov.in>.

The amendments will invariably be posted on the portal <https://mptenders.gov.in> and will be binding on all Bidders.

In order to afford the Applicants a reasonable time for taking an amendment into account, or for any other reason, the Authority may, in its sole discretion, extend the Proposal Due Date.

C. PREPARATION OF PROPOSAL

2.14 Language:

The Proposal with all accompanying documents (the “**Documents**”) and all communications in relation to or concerning the Bidding Process shall be in English language and strictly on the forms provided in this RFP. No supporting document or printed literature shall be submitted with the Proposal unless specifically asked for and in case any of these Documents is in another language, it must be accompanied by an accurate translation of the relevant passages in English, in which case, for all purposes of interpretation of the Proposal, the translation in English shall prevail.

2.15 Format and signing of Proposal:

The Bidder shall provide all the information sought under this RFP. The Authority would evaluate only those Proposals that are received in the specified forms and complete in all respects.

- (a) The Bidder shall prepare and upload all the documents comprising Technical Proposal for online submission on e-procurement portal.
- (b) The Financial Proposal must be submitted electronically on e-procurement portal. Submission of Financial Proposal in hard copy may lead to rejection of the Bid/Proposal.

The Proposal shall be typed or written in indelible ink and signed by the authorized signatory of the Bidder who shall initial each page, in blue ink. All the alterations, omissions, additions, or any other amendments made to the Proposal shall be initialed by the person(s) signing the Proposal. The Proposals must be properly signed by the authorized representative (the "Authorized Representative") as detailed below:

- (a) by the proprietor, in case of a proprietary firm; or
- (b) by a partner, in case of a partnership firm and/or a limited liability partnership; or
- (c) by a duly authorized person holding the Power of Attorney, in case of a Limited Company or a corporation.

A copy of the Power of Attorney certified under the hands of a partner or director of the Bidder and notarized by a notary public in the form specified in Appendix-1 (Form-4) shall accompany the Proposal.

Bidders should note the Due Dates, as specified in Key Dates (Clause 2.19) for online submission of Proposals. Except as specifically provided in this RFP, no supplementary material will be entertained by the Authority, and that evaluation will be carried out only on the basis of Documents uploaded on e-procurement portal by the closing time of Proposal Submission End Date as specified in Clause 2.19. Bidders will ordinarily not be asked to provide additional material information or documents subsequent to the date of submission, and unsolicited material if submitted will be summarily rejected. For the avoidance of doubt, the Authority reserves the right to seek clarifications under and in accordance with the provisions of Clause 2.26.

2.16 Technical Proposal:

Bidders shall upload / submit the technical proposal in the formats as prescribed in RFP (the "Technical Proposal") online on e-procurement portal.

While uploading/submitting the Technical Proposal, the Bidder shall, in particular, ensure that:

- (a) The Bid Security is provided;
- (b) Scanned Copy of Telecom License issued by DoT, Govt. of India is provided.
- (c) Scanned copies of Statutory Documents of the bidder are provided.
- (d) All forms are submitted in the prescribed formats and signed by the authorised signatories;
- (e) Power of Attorney, if applicable, is executed as per Applicable Laws;
- (f) The cost of RFP document is provided

Failure to comply with the requirements spelt out in this Clause 2.16 shall make the Proposal liable to be rejected.

The Technical Proposal shall not include any financial information relating to the Financial Proposal.

The Authority reserves the right to verify all statements, information and documents, submitted by the Bidder in response to the RFP. Any such verification or the lack of such verification by the Authority to undertake such verification shall not relieve the Bidder of its obligations or liabilities hereunder nor will it affect any rights of the Authority there under.

In case, it is found during the evaluation or at any time before signing of the Lease Agreement or after its execution and during the period of subsistence thereof, that one or more of the eligibility conditions have not been met by the Bidder or the Bidder has made material misrepresentation or has given any materially incorrect or false information, the Bidder shall be disqualified forthwith if not yet selected either by issue of the LOI or entering into of the Lease Agreement, and if the Selected Bidder has already been issued the LOI or has entered into the Lease Agreement, as the case may be, the same shall, notwithstanding anything to the contrary contained therein or in this RFP, be liable to be terminated, by a communication in writing by the Authority without the Authority being liable in any manner whatsoever to the Bidder, as the case maybe.

In such an event, the Authority shall forfeit and appropriate the Bid Security / Performance security (as the case may be) as mutually agreed pre-estimated compensation and damages payable to the Authority for, *inter alia*, time, cost and effort of the Authority, without prejudice to any other right or remedy that may be available to the Authority.

2.17 Financial Proposal:

Applicants shall submit the financial proposal in the format at Appendix-2 Form-1 (the “**Financial Proposal**”) clearly indicating their highest Leasing Rate per Pair of Dark fiber per Km per Annum for a particular route for First Year in Indian Rupees, and digitally signed by the Applicant’s Authorized Representative. In the event of any difference between figures and words, the higher amount shall prevail. In the event of a difference between the arithmetic total and the total shown in the Financial Proposal, the higher of the two shall prevail.

Applicant shall have to submit the financial proposal in the Appendix-2 Form-1 and upload the same on e-procurement portal as per instructions therein. Physical submission of financial proposal will not be considered and may lead to rejection of the Bid/Proposal. The financial proposal of techno-commercially qualified Applicant shall be opened online at the notified date at e- procurement portal <https://mptenders.gov.in>. Applicants can view information of date of financial proposal opening by logging in to website.

D. Submission of Proposal

Applicants are requested to submit their Proposal as per conditions of this RFP document. Any deviation from conditions as specified herein; the Proposal will not be accepted.

Applicants are required to furnish the Proposal electronically on e-procurement website at <https://mptenders.gov.in> by following procedure given below:-

Registration:

1. Applicants are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL:<https://mptenders.gov.in/nicgep/app>) by clicking on the link “**Online Applicant Enrolment**” on the MP TENDERS Portal.
2. As part of the enrolment process, the Applicants will be required to choose a unique username and assign a password for their accounts.
3. Applicants are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the MP TENDERS Portal.
4. Upon enrolment, the Applicants will be required to register their valid Digital Signature Certificate (**Class III Certificates with signing key usage**) issued by any Certifying Authority recognized by CCA India, with their profile.
5. Only one valid DSC should be registered by an Applicant. Please note that the Applicants are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Applicant then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

Payment of Transaction Fee:

It is mandatory for the entire participant Applicants to electronically pay a Non-refundable Transaction fee to the service provider through “Payment Gateway Service on e-Procurement platform”.

RFP Document:

The RFP documents can be purchased ONLY online. The RFP shall be available for purchase to concerned eligible Applicants immediately after online release of the RFP and upto scheduled date and time as set in the key dates. The Applicants are requested to read all the terms and conditions mentioned in the RFP Document and seek clarification if any from the RFP Inviting Authority. Arrangements have been made for the Applicants to make payments online.

The Applicants can purchase the RFP documents online from website <https://www.mptenders.gov.in> by making online payment for the RFP document fees using the service of the secure electronic payments gateway, and should print out the system generated receipt for their reference which can be produced whenever required. Service and gateways charges shall be borne by the Applicants. Manual purchase of RFP is not allowed.

Electronic Payment Account:

As the RFP documents shall be available for purchase only online, Applicants are required to pay the RFP Document fees online using the Online Payments Gateway Service integrated into the e- Procurement System.

For the list of available modes of electronic payments that are presently accepted on the Online Payments Gateway Service, please check the link, List of e-Payments accepted Online’ on <https://www.mptenders.gov.in>.

Digital Certificate authentication:

The Proposals submitted online should be signed electronically with a Class III Digital Certificate to establish the identity of the Applicant submitting the Proposal online. The Applicants may obtain valid Class III Digital Certificates (with signing key usage) issued by an approved Certifying Authority authorized by the Controller of Certifying Authorities, Government of India, with their profile. A Class-III Digital Certificate is issued upon receipt of mandatory identity proofs along with an Application Form. Only upon the receipt of the required documents, a Digital Certificate can be issued.

Note: - It may take upto 7 to 10 working days for issuance of Class III Digital Certificate; hence the Applicants are advised to obtain them at the earliest.

Important Note: Proposal for a particular RFP can be submitted during the ONLINE BID SUBMISSION stage only using the Digital Certificate that is used to encrypt the data.

In case, during the process of a particular Proposal, the Applicant loses his Digital Certificate because of any problem (such as misplacement, virus attack, hardware problem, operating system problem, etc.); he may not be able to submit his Proposal online. Hence, the Applicants are advised to keep their Digital Certificates in a safe place under proper security to be used whenever required.

The digital certificate issued to the Authorized User of a Partnership firm / Private Limited Company / Public Limited Company / Joint Venture and used for online bidding will be considered as equivalent to a no-objection certificate / power of attorney to that user.

In case of Partnership Firm, majority of the Partners have to authorize a specific individual through Authority Letter signed by majority of the Partners of the firm.

In case of Private Limited Company, Public Limited Company, the Managing Director / any other Person (having designated authority to authorize a specific individual) has to authorize a specific individual through Authority Letter.

Unless the certificate is revoked, it will be assumed to represent adequate authority of the specific individual to bid on behalf of the Organization for online bids as per Information Technology Act 2000. This Authorized User will be required to obtain a Digital Certificate. The Digital Signature executed through the use of Digital Certificate of this Authorized User will be binding on the firm. It shall be the responsibility of Management / Partners of the concerned firm to inform the Certifying Authority, if the Authorized User changes, and apply for a fresh digital certificate for the new Authorized User.

Set up of Applicant's Computer System:

In order for an Applicant to operate on the e-Procurement System, the Computer System of the Applicant is required to be set up for Operating System, Internet Connectivity, Utilities, Fonts, etc. A help file on setting up of the Computer System can be obtained from e-Procurement portal help line.

Key Dates:

The Applicants are strictly advised to follow the time schedule (Key Dates) of the RFP for their side for tasks and responsibilities to participate in the bid, as all the stages of each Bid are locked before the start time and date and after the end time and date for the relevant stage of the Bid as set by the concerned Department Official. Hence, once the time schedule for a particular stage is lapsed then that task will be locked and the Applicants who have not completed the task in time may not be able to participate in the bid. It should be appreciated

that sufficient time duration is given for each stage and therefore, it is the responsibility of Applicants to complete the process well within time rather than waiting for the last day of submission. MPPTCL & e-procurement portal holds no responsibility for the non submission of Proposals due to such delay/ negligence of the Applicants.

Bid/Proposal submission:

The Applicants are required to submit soft copies of their Proposals electronically on the MP TENDERS Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the Applicants in registering on the MP TENDERS Portal, prepare their Proposals in accordance with the requirements and submitting their Bids online on the MP TENDERS Portal. More information useful for submitting online Bids on the MP TENDERS Portal may be obtained at <https://mptenders.gov.in/nicgep/app> wherein the details and relevant links are available in the Applicants Manual Kit on the right pane of website which is also given as under

Applicants Manual Kit - Open Source Software Link

SN	Particulars	Downloads
1	Notice to Bidders	notice_to_bidders_v906.pdf
2	Registration of Bidders	Bidder_Registration_Manual_Updated_v906.pdf
3	Uploading of My Documents	MyDocument_Updated_v906.pdf
4	Online e-Bid Submission	Three_Cover_Bid_Submission_New_v906.pdf
		Two_cover_bid_submission_new_v906.pdf
		Four_cover_bid_submission_new_v906.pdf
		Single_Cover_bid_submission_New_v906.pdf
5	Online Bid Withdrawal	bid_withdrawal_updated_v906.pdf
6	Online Bid Re-submission	Bid_Resubmission_Updated_v906.pdf
7	Clarifications (Tender Status, My Archive...)	Enquiry_Updated_v906.pdf
8	Trouble Shooting	troubleshoot_document_v906.pdf
9	BoQ Preparation Guidelines	ItemWise_BOQ_New_v906.pdf
		Percentage_BOQ_Updated_v906.pdf
		ItemRate_BOQ_Updated_v906.pdf

Searching For RFP Documents:

a There are various search options built in the MP TENDERS Portal, to facilitate Applicants to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the Applicants may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the MP TENDERS Portal.

b. Once the Applicants have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective 'My Tenders' folder. This would enable the MP TENDERS Portal to intimate the Applicants through SMS / e-mail in case there is any corrigendum issued to the tender document.

c. The Applicant should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

Preparation of Proposals:

a. Applicant should take into account any corrigendum/ Addendum published on the tender document before submitting their Proposals.

b. Please go through the RFP document and the corrigendum carefully to understand the documents required to be submitted as part of the RFP. Please note the number of covers in which the RFP documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the Proposal.

c. Applicant, in advance, should get ready the Bid/Proposal documents to be submitted as indicated in the RFP document and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

d. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every Bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the Applicants. Applicants can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a Bid, and need not be uploaded again and again. This will lead to a reduction in the time required for Bid submission process.

Submission of Proposals:

a. Applicant should log into the site well in advance for Bid submission so that they can upload the Bid in time i.e. on or before the Bid/Proposal submission end date and time. Applicant will be responsible for any delay due to other issues.

b. Applicant has to upload scanned self certified copies of credential/PQR documents against respective tender as specified in NIT/RFP.

c. Applicant has to digitally sign and upload the required Bid documents one by one as indicated in the RFP document.

d. Applicant has to select the payment option as "online" to pay the tender fee / EMD as applicable.

e. Applicants are requested to note that they should necessarily submit their financial Proposals in the format provided and no other format is acceptable. If the price Bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the Applicants. Applicants are required to download the

Price Bid file, open it and complete the unprotected cells with their respective financial quotes and other details (such as name of the Applicant). No other cells should be changed. Once the details have been completed, the Applicant should save it and submit it online, without changing the file name. If the Price Bid file is found to be modified by the Applicant, the Bid will be rejected.

f. The server time (which is displayed on the Applicants' dashboard) will be considered as the standard time for referencing the deadlines for submission of the Proposals by the Applicants, opening of Proposals etc. The Applicants should follow this time during Proposal submission.

g. All the documents being submitted by the Applicants would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of Proposal opening. The confidentiality of the Proposals is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any RFP document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/RFP openers' public keys.

h. The uploaded tender documents become readable only after the tender opening by the authorized Proposal/Bid openers.

i. Upon the successful and timely submission of Proposals (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful Proposal submission message & a Bid summary will be displayed with the RFP no. and the date & time of submission of the Proposal with all other relevant details.

j. The Bid summary has to be printed and kept as an acknowledgement of the submission of the Proposal. This acknowledgement may be used as an entry pass for any Proposal opening meetings.

Assistance to Applicants:

a. Any queries relating to the RFP document and the terms and conditions contained therein should be addressed to the RFP Inviting Authority for a tender or the relevant contact person indicated in the RFP.

b. Any queries relating to the process of online Bid submission or queries relating to MP TENDERS Portal in general may be directed to the 24x7 MP TENDERS Portal Helpdesk telephone No. 0120-4001002.

Applicant should duly upload the documents and fill the Bid. The online Bid/Proposal should be submitted before Proposal Submission End date.

Submission of Earnest Money Deposit (Bid Security):

a. The Bid Security of respective amount as indicated in the RFP is to be submitted by Applicant, online on e-portal of MP Tenders. Alternatively, Bid Security in the form of Bank Guarantee issued by scheduled commercial bank in India/Nationalized bank shall also be accepted. In case of BG, scanned copy of Bank Guarantee is to be uploaded in online Envelope-A and Original BG should reach to this office within seven (7) days after Proposal

due date. In the absence of original BG, the employer may consider the bid non-responsive.

b. If bidder is opting for submission of Bank Guarantee towards Bid Security/ EMD, then bidder has to opt for “exemption” option on the portal and upload the scanned self-certified copy of EMD BG as per RFP towards exemption from online payment of EMD amount.

c. The BG should be valid for a period of at least one month beyond the original bid validity period including any extension thereof.

d. The prospective Applicants, who are submitting Bid security online, will upload scanned self-certified copy of receipt of online payment of Bid Security on the website in Envelope-A along with offer.

Technical Proposal:

Applicants must complete online e-Bidding procedure at <https://www.mptenders.gov.in>. They shall have to submit the following documents online on the website.

Complete techno-commercial offer containing all forms of Appendix-1 (Form 1 to Form 13) and other supporting documents as per RFP, detailed description, specification and all commercial terms and conditions etc. shall be uploaded. This document should not contain any price part.

Physical submission (Hard copies) of Technical Proposal is not required except as indicated in Clause 2.22.

Financial Proposal:

Applicant shall have to submit the financial proposal downloaded from e-procurement portal (Appendix-2 Form-1) and upload as per instructions therein. Physical submission of financial proposal will not be considered and liable for rejection. The financial proposal of techno-commercially qualified Applicant shall be opened online at the notified date at <https://www.mptenders.gov.in>. Applicants can view information of date of opening of financial proposal by logging in to website.

Opening of Proposals:

During the online Technical Proposal opening, the Bid Security/ RFP cost part of all the Applicants will be opened first and after the verification of the uploaded copy of Bid Security/ RFP cost, the proposals will be considered for Techno-Commercial opening. Subject to fulfillment of conditions related to RFP cost / Bid Security, the technical proposals shall be opened and after evaluation of the same, the decision will be taken for opening of financial proposal.

Change in Date & Time of Opening of Tenders:

- a. Proposals shall be opened on the due date and time as notified in the presence of the Applicants or their authorized representative who may be present. If the due date of opening of Proposals is declared a holiday by the Central/State Govt. or Local administration, it will automatically get shifted to the next working day, for which no prior intimation shall be given. The Bid opening shall be continued on subsequent dates in case the opening of all the Proposals/Bids is not completed on the date of opening.
- b. In the event of any issue, the tender/Bid data in question shall be liable for a due process of verification by the authorized officer of e- procurement system of Madhya Pradesh Power Transmission Co. Ltd., Jabalpur.
- c. It may please be noted that the due date/time of opening of Proposals can be altered, extended, if desired by the company without assigning any reason thereof. However, due intimation shall be given /published on e- procurement portal.

Withdrawal, Substitution and Modification of Bids:

The Applicant may please note that any online correction in the Bid / Proposal after its submission (uploading) is permissible. To avail this facility Applicants are required to withdraw their Proposals first from online portal and after correction, resubmit the Proposal online. Applicant may please note that without withdrawing the **Proposal**, no correction in the Proposal is permissible. However, before withdrawal of the Proposals, Applicants are requested to read the details given in “Applicants manual kit” at Sr. No. 5 & 6 above and may also consult to help desk Telephone No.0120-4001002/4000462/4001005/6277787.

E. IMPORTANT TENDER DETAILS AND KEY DATES

2.18 Important Tender Details:

1	Department Name	:	M.P.P.T.C.L
2	Name of Purchaser	:	Chief Engineer (Procurement) Jabalpur
3	Tender Number	:	TR- 17/2023
4	Name of the Tender	:	Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.
5	Bid Type	:	Single Stage Three Envelope Tender
6	RFP Cost	:	Rs 11,800/- (including GST)
7	RFP Cost (Mode of payment)	:	Online payment
8	Bid Security (EMD)	:	Rs 15,58,000/-
9	Mode of Payment	:	Online payment or Bank Guarantee from a Scheduled Commercial Bank
10	Bid / Proposal submission	:	Online
11	Bid Parameter	:	Rate per Pair of Dark fiber per Km per Annum for First Year.
12	Pairs of Dark Fiber considered for Leasing under this RFP	:	Four Pairs
13	Minimum bidding quantity	:	1000 fiber pair Km

14	Minimum & Maximum pair of fiber allowed to Bid	:	Minimum One pair and maximum upto four pairs
15	Agreement period	:	10 years extendable upto 5 years on mutually agreed terms.
16	Floor Price (Reserve Price)	:	Rs. 16,500/- per Fiber Pair per Km per Annum (including O&M charges) (exclusive of GST) in first year and 5% escalation on lease rent in subsequent years on year on year basis.
17	Place of Proposal opening	:	Chief Engineer (Procurement) Jabalpur
18	Officer Inviting RFP	:	Chief Engineer (Procurement) Jabalpur
19	Contact Person	:	EE(TK-IV), O/o CE (Procurement)
20	Address/ E-mail id		mptransco@nic.in
21	Contact Details: Tel. No./ Fax	:	0761-2702146, 2702123, 2702156 0761-2665593

2.19 Key Dates:

SN	Tender Stage	Particulars	Date & Time
1	Publishing of tender date	Tender Purchase-online	10.04.2023 17:00 Hrs
2	Document download start date		10.04.2023 17:30 Hrs
3	Seek clarification Start Date		10.04.2023
4	Seek clarification End Date		28.04.2023
5	Pre-Proposal Conference		25.04.2023
6	Proposal Submission Start Date	Envelope C, Envelope A & Envelope B	16.05.2023 15:30 Hrs
7	Proposal Submission End Date (Online Submission)	Envelope C, Envelope A & Envelope B	23.05.2023 15:30 Hrs
8	Proposal Opening Date (Proposal Due Date)	Envelope A & Envelope B	25.05.2023 15:30 Hrs
9	Financial Proposal (Envelope-C) Opening Date	Envelope-C (Price Bid)	Will be informed later

Note:

- The Bidder has to quote their rates online only in Envelope C. The Financial Proposal (Price Bid) shall be uploaded online in Envelope-(C) as per schedule of key dates. Please note that, the Form of Financial Proposal (Envelope-C) will not be accepted physically. In case Envelope-C is submitted physically, the Bid will be rejected.
- The Bidders have to submit system generated money receipt for online payment for tender cost and Bid Security (EMD) / scanned copy of EMD BG on e-procurement portal online in Envelope-(A) as per Key Dates.
- The Bidders have to submit Technical Proposal (Form-1 to Form-13 and other supporting documents as per RFP) in Envelope-(B).
- The date of opening of Financial Proposal may vary depending upon time taken in techno-commercial evaluation. The Bidders may please keep them updated of Financial Proposal opening from the e-portal.

- e. The Financial Proposal shall include submission of prices strictly as per Appendix-2 (Form-1 - Financial Proposal) in standard online format. It may be mentioned that no such information should be furnished in the Financial Proposal which may not be in conformity with details furnished in Technical Proposal. In case of any discrepancy, suitable loading on prices will be considered or offer may be considered nonresponsive, for which responsibility will rest on the Bidders.
- f. Further submission of any additional information or document after opening of techno-commercial part of tender, which may affect the financial commitment, will not be allowed.
- g. It is obligatory on the part of the Bidders to comply with all our commercial terms & conditions.
- h. The MPPTCL reserves the right to reject any or all Proposals or to accept any Proposal considered advantageous to the MPPTCL whether it is the highest Proposal or not. No reasons will be assigned by the MPPTCL for this and this will be binding on the Bidders
- i. The Proposal should be made out in English. Documents, if submitted in any other language must be accompanied by English translations.
- j. The Bidders shall submit their eligibility and qualification details, Technical Proposal (Appendix-1 comprising Form 1 to Form 13) in the standard formats appended with the RFP documents. The Bidder shall sign on the statements, documents, certificates, owing responsibility for their correctness / authenticity. The Bidder shall attach / upload all the required documents for the specific tender during the Bid submission as per RFP document.
- k. On the due date of e-tender opening, Technical Proposal of Bidders subject to fulfillment of conditions regarding EMD / RFP cost, will be opened online.
- l. The Bidders will be solely responsible for the correctness / genuineness of the downloaded tender documents from the website. If the offer submitted through the downloaded tender documents, which are incomplete or with changed contents, the offer will be summarily rejected.
- m. While submitting the tender, it shall be ensured that the Appendices are strictly in prescribed forms. The Bidder may use the original forms supplied with the tender specification or may use separate sheets.
- n. The tender should be completed with all Forms / Appendices attached to the specification, otherwise the tenders are liable to be rejected.
- o. The Bidders are requested to go through the specification schedules, notes and all enclosures carefully. Doubts, if any, should be got clarified well in time by writing to the Purchaser.
- p. The Bidder or maximum two of his authorized representatives (having documentary evidence for such representation) may be present at the time of opening of tender if they so desire.
- q. **Power of Attorney:** The Bidder may please note that notarized Power of Attorney regarding confirmation of authorization to sign on behalf of the Bidder should necessarily be submitted along with offer.

The Authority shall not be liable for any omission, mistake or error on the part of the Bidder in respect of any of the above or on account of any matter or thing arising out of or concerning or relating to RFP or the Selection Process, including any error or mistake therein or in any information or data given by the Authority.

2.20 Taxes and Duties:

Leasing of Dark Fiber and Co-location Charges shall be considered as service as per GST Law. Company will charge GST at the prevailing rate for rendering service while raising Invoice.

GST payable in respect of the Lessee shall be over and above the Lease Rent of Dark Fiber and Co-location Charge.

Income Tax TDS as per the provisions of the Income Tax Act, 1961 is to be deducted from the bills by the Bidder. The amount so deducted shall be deposited timely, necessary return(s) filed and TDS certificate must be issued to the Company.

2.21 Bid Security:

The Bidder shall furnish as part of its Proposal, a Bid security of Rs. 15,58,000/- (Fifteen Lakh fifty eight thousand) only by making online payment on e-portal of MP Tenders or in the form of Bank Guarantee issued by one of the Nationalized / Scheduled Banks(the "Bid Security").

The scanned copy of system generated receipt for online payment of Bid security or Scanned Copy of Bank Guarantee, as the case may be, must be uploaded in Envelope 'A' as provided in the RFP Document. Any Bid not accompanied by the Bid Security shall be rejected by the Authority as non-responsive. The Authority shall not be liable to pay any interest on the Bid Security and the same shall be interest free.

The Bidder, by submitting its Application pursuant to this RFP, shall be deemed to have acknowledged that without prejudice to the Authority's any other right or remedy hereunder or in law or otherwise, the Bid Security shall be forfeited and appropriated by the Authority as the mutually agreed pre-estimated compensation and damage payable to the Authority for, *inter alia*, the time, cost and effort of the Authority in regard to the RFP including the consideration and evaluation of the Proposal under the following conditions:

- a. If an Bidder engages in any of the Prohibited Practices specified in Section-2 of this RFP; or
- b. If an Bidder withdraws its Proposal during the period of its validity as specified in this RFP and as extended by the Bidder from time to time; or
- c. In the case of a Selected Bidder, if the Bidder either fails to accept the LOI unconditionally or fails to sign the Lease Agreement within the specified time schedule; or
- d. If the successful Bidder fails to furnish the Contract Performance Bank Guarantee within the stipulated time schedule; or
- e. If the Bidder is found to have a Conflict of Interest as specified in Clause 2.4 or.
- f. If a Bidder does not accept the corrections to arithmetical errors identified during preliminary evaluation of his Proposal;

The Techno-Commercial Qualified Bidders' EMD shall be kept valid and discharged upon the Successful Bidder(s) signing of the Lease Agreement and submission and acceptance of the Performance Bank Guarantee (PBG).

2.22 Submission of Hard Copy:

The following documents shall be furnished in original to the Tender Inviting Authority within 7 (seven) days from the date of opening of the Techno-Commercial Bid as indicated in the RFP.

- (a) Original Bank Guarantee towards EMD.
- (b) Power of Attorney (notarized copy) for signing the proposal.
- (c) Affidavits/Undertakings of Bidders in Original

F. EVALUATION AND COMPARISON OF BIDS

2.23 Evaluation of Technical Proposal:

The Authority shall open the Technical Proposals online on the Proposal Due Date and Time specified in Key Dates, at the place specified in Clause 1.12 on e-portal and in presence of Bidders who choose to be present.

During the online Technical Proposal opening, the Bid Security / RFP cost part of all the Bidders will be opened first and after the verification of the uploaded copy of Bid Security / RFP cost, the proposals will be short listed for Techno-Commercial opening. Subject to fulfilment of conditions related to RFP cost / Bid Security, the Technical Proposals shall be opened and after evaluation of the same, the decision will be taken for selection of Bidders for the purpose of opening of Financial Proposal.

Prior to evaluation of Proposals, the Authority will determine whether each Proposal is responsive to the requirements of the RFP. The Authority may, in its sole discretion, reject any Proposal that is not responsive hereunder. A Proposal shall be considered responsive only if:

- a) the Technical Proposal is received in the forms specified at Appendix-1;
- b) it is received by the Proposal Submission End Date including any extension thereof pursuant to Clause 2.13;
- c) it is accompanied by the Bid Security as specified in Clause 2.21.
- d) it is accompanied by the Power of Attorney as per Appendix-1, Form-4;
- e) it contains all the information (complete in all respects) as requested in the RFP;
- f) it does not contain any condition or qualification;
- g) it is accompanied by RFP document cost;
- h) it is not non-responsive in terms hereof.

The Authority reserves the right to reject any Proposal which is non-responsive and no request for alteration, modification, substitution or withdrawal shall be entertained by the Authority in respect of such Proposals.

The Authority shall subsequently examine and evaluate the Technical Proposals in accordance with the criteria set out in the RFP.

After the technical evaluation, the Authority shall prepare a list of pre-qualified and shortlisted Bidders for opening of their Financial Proposals. The Financial Proposals of pre-qualified and short listed Bidders shall be opened at the date and time specified. Before opening of the Financial Proposals, the list of pre-qualified and shortlisted Bidders will be uploaded. The opening of Financial Proposals shall be done on the e-procurement website online in presence of representatives of Bidders who choose to be present. The Authority will not entertain any query or clarification from Bidders who fail to qualify at any stage of the

Bidding Process. The financial evaluation and final ranking of the Proposals shall be carried out in terms of Clauses 2.24 of RFP.

Bidders are advised that Bidding shall be entirely at the discretion of the Authority. Bidders shall be deemed to have understood and agreed that the Authority shall not be required to provide any explanation or justification in respect of any aspect of the Bidding Process.

Any information contained in the Proposal shall not in any way be construed as binding on the Authority, its agents, successors or assigns, but shall be binding against the Bidder if the lease is subsequently awarded to it.

2.24 Evaluation of Financial Proposals:

Prices received in the financial proposal sheet (.XLS Format) shall be used for Tabulation / Price Comparison. The soft form of financial proposal filled in the .XLS format shall be final and binding on the Bidders.

The evaluated prices (Exclusive of GST) of all the Bidders quoted for a particular Line / Link shall first be compared irrespective of quoted Line/Links, for ranking of Bidders to determine the Highest Evaluated Price (H1).

Highest Bidder (H1) shall be selected on the basis of highest rate quoted per fiber pair per KM per annum for First Year. Highest rate shall not be less than the Reserve Price (Floor price) of MPPTCL mentioned in the RFP. Any discovered price per Pair of Dark Fiber per Km per Annum for any Line/Link less than 'Floor Price' of MPPTCL shall be rejected.

In case more than one bidder has quoted same rate (H1), then the successful bidder (H1) shall be selected in the following order:

- (a) Successful bidder shall be decided on the basis of higher total revenue to the MPPTCL from the total length of fibre links and rate quoted by the bidder above floor price shall be the H1 Bidder.
- (b) In case there is tie, the bidder whose annual turnover is comparatively high in the last financial year shall be termed as H1 Bidder.

2.25 Confidentiality

Information relating to the examination, clarification, evaluation, and recommendation for the selection of Bidders shall not be disclosed to any person who is not officially concerned with the process or is not a retained professional adviser advising the Authority in relation to matters arising out of, or concerning the Bidding Process. The Authority shall treat all information, submitted as part of the Proposal, in confidence and shall require all those who have access to such material to treat the same in confidence. The Authority may not divulge any such information unless it is directed to do so by any statutory entity that has the power under law to require its disclosure or is to enforce or assert any right or privilege of the statutory entity and/or the Authority or as may be required by law or in connection with any legal process.

2.26 Clarifications:

To facilitate evaluation of Proposals, the Authority may, at its sole discretion, seek clarifications from any Bidder regarding its Proposal. Such clarification(s) shall be provided within the time specified by the Authority for this purpose. Any request for clarification(s) and all clarification(s) in response thereto shall be in writing.

If a Bidder does not provide clarifications sought under Clause 2.26 above within the specified time, its Proposal shall be liable to be rejected. In case the Proposal is not rejected, the Authority may proceed to evaluate the Proposal by construing the particulars requiring clarification to the best of its understanding, and the Bidder shall be barred from subsequently questioning such interpretation of the Authority.

G. Award of Lease

2.27 Award Criteria:

- (i) Highest Bidder (H1) shall be selected on the basis of highest rate quoted per fiber pair per km per annum for first year as specified in Clause 2.24. Highest rate shall not be less than the Floor Price of MPPTCL mentioned in the RFP.
- (ii) Allotment of fibers shall be made to H1 bidder as per the requirement of H1 bidder who quoted highest rate.
- (iii) Other bidders may be considered for allotment of fibers, if they match H1 bidder's highest quoted rate, subject to the availability of the fibers in the quoted sections in the order of (H2, H3...).
- (iv) Immediately after allocation of fiber, if bidders are interested in extra un-allocated fibers covered in the Tender, same shall be provided from the unallocated fiber link list to the bidders in order of H1, H2, H3 as per highest rate (H1).

For avoidance of doubt, it is clarified that all the allotment of fibers shall be done at highest rate (H1) only, irrespective of line / link.

2.28 Letter of Intent (LOI):

Letter of Intent (LOI) shall be issued in favour of first successful bidder(s) at H1 price. The Letter of Intent (LOI) shall inter alia include number of Fiber Pair(s) against each line, length of line, detailed Price Schedule, Terms and conditions etc.

The actual length of the dark fiber will be recorded as per the measurement of dark fiber with OTDR. These OTDR readings will be considered for agreeing final length of the dark fiber. The successful bidder shall acknowledge & accept the LOI within a week un-conditionally. Conditional acknowledgement of the LOI shall be construed as non-acceptance of the bid. Authority may issue Letter of Intent (LOI) with certain instructions to comply. After such compliance by the bidder, Lease Agreement will be executed.

The Letter of Intent (LOI) and its subsequent amendment(s) shall supersede all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Lease Agreement.

In an event, the successful bidder doesn't acknowledge the LOI within due date or Lease Agreement has not been executed within specified time, the EMD of such bidder(s) shall be forfeited. However, dark fibers allocated to the successful bidder may be allocated to the bidder(s) in descending order of their evaluated prices subject to availability of dark fibre pair and acceptance of H1 price so discovered through this tender and approval of competent authority.

Within fifteen (15) days of the receipt of Letter of Intent, the Bidder shall be required to furnish a Contract Performance Bank Guarantee (as per the prescribed format) issued by a scheduled commercial bank of India in favour of the Authority.

2.29 Performance Bank Guarantee (PBG):

Performance Bank Guarantee amount shall be equal to First Year Contract Value (including GST) valid for a period of 2 (two) years. The PBG shall be enhanced after each two years block to match the value derived from Lease Rent for third, fifth, seventh and ninth year, as the case may be. The PBG shall be extended with enhanced amount for a period of two years each time, till the Lease Agreement period.

The aforesaid PBG shall be returned to the Lessee after successful completion of the 10 years of Lease Agreement (In case agreement is not extended further by mutual consent).

In case successful bidder fails to submit the PBG within the scheduled time or any extension thereof, the Letter of Intent (LOI) will be cancelled and EMD will be forfeited.

H. FRAUD AND CORRUPT PRACTICES

- 2.30** The Applicants and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Selection Process. Notwithstanding anything to the contrary contained in this RFP, the Authority shall reject a Proposal without being liable in any manner whatsoever to the Applicant, if it determines that the Applicant has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice (collectively the “**Prohibited Practices**”) in the Selection Process. In such an event, the Authority shall, without prejudice to its any other rights or remedies, forfeit and appropriate the Bid Security or Performance Security, as the case may be, as mutually agreed genuine pre-estimated compensation and damages payable to the Authority for, *inter alia*, time, cost and effort of the Authority, in regard to the RFP, including consideration and evaluation of such Applicant’s Proposal.
- 2.31** Without prejudice to the rights of the Authority under Clause 2.30 hereinabove and the rights and remedies which the Authority may have under the LOI or the Lease Agreement, if an Applicant or Lessee, as the case may be, is found by the Authority to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Selection Process, or after the issue of the LOI or the execution of the Lease Agreement, such Applicant or Lessee shall not be eligible to participate in any tender or RFP issued by the Authority during a period of 3 (three) years from the date such Applicant is found by the Authority to have directly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as the case may be.
- 2.32** For the purposes of this Section, the following terms shall have the meaning hereinafter respectively assigned to them:
- (a) “**corrupt practice**” means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of any person connected with the Selection Process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the Authority who is or has been associated in any manner, directly or indirectly with the Selection Process or the LOI or has dealt with matters concerning the Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the Authority, shall be deemed to constitute influencing the actions of a person connected with the Selection Process); or (ii) save as provided herein, engaging

in any manner whatsoever, whether during the Selection Process or after the issue of the LOI or after the execution of the Agreement, as the case may be, any person in respect of any matter relating to the Project or the LOI or the Agreement, who at any time has been or is a legal, financial or technical consultant/ adviser of the Authority in relation to any matter concerning the Project;

- (b) “**fraudulent practice**” means a misrepresentation or omission of facts or disclosure of incomplete facts, in order to influence the Selection Process;
- (c) “**coercive practice**” means impairing or harming or threatening to impair or harm, directly or indirectly, any persons or property to influence any person’s participation or action in the Selection Process;
- (d) “**undesirable practice**” means (i) establishing contact with any person connected with or employed or engaged by the Authority with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Selection Process; or (ii) having a Conflict of Interest; and
- (e) “**restrictive practice**” means forming a cartel or arriving at any understanding or arrangement among Applicants with the objective of restricting or manipulating a full and fair competition in the Selection Process.

I. PRE-PROPOSAL CONFERENCE

- 2.33 Pre-Proposal Conference of the Applicants shall be convened at the designated date, time and place. A maximum of two representatives of each Applicant shall be allowed to participate on production of an authority letter from the Applicant.
- 2.34 During the course of Pre-Proposal Conference, the Applicants will be free to seek clarifications and make suggestions for consideration of the Authority. The Authority shall endeavor to provide clarifications and such further information as it may, in its sole discretion, consider appropriate for facilitating a fair, transparent and competitive Selection Process.

J. MISCELLANEOUS

- 2.35 The Selection Process shall be governed by, and construed in accordance with, the laws of India and the Courts at Jabalpur, shall have exclusive jurisdiction over all disputes arising under, pursuant to and/or in connection with the Selection Process.
- 2.36 The Authority, in its sole discretion and without incurring any obligation or liability, reserves the right, at any time, to:
 - (a) suspend and/or cancel the Selection Process and/or amend and/or supplement the Selection Process or modify the dates or other terms and conditions relating thereto;
 - (b) consult with any Applicant in order to receive clarification or further information;
 - (c) retain any information and/or evidence submitted to the Authority by, on behalf of and/or in relation to any Applicant; and/or
 - (d) independently verify, disqualify, reject and/or accept any and all submissions or other information and/or evidence submitted by or on behalf of any Applicant.

- 2.37** It shall be deemed that by submitting the Proposal, the Applicant agrees and releases the Authority, its employees, agents and advisers, irrevocably, unconditionally, fully and finally from any and all liability for claims, losses, damages, costs, expenses or liabilities in any way related to or arising from the exercise of any rights and/or performance of any obligations hereunder, pursuant hereto and/or in connection herewith and waives any and all rights and/or claims it may have in this respect, whether actual or contingent, whether present or future
- 2.38** All documents and other information supplied by the Authority or submitted by an Applicant shall remain or become, as the case may be, the property of the Authority. The Authority will not return any submissions made hereunder. Applicants are required to treat all such documents and information as strictly confidential.
- 2.39** The Authority reserves the right to make inquiries with any of the clients listed by the Applicants in their previous experience record.

SECTION - 3

**GENERAL
CONDITIONS
OF
CONTRACT**

3. GENERAL CONDITIONS OF CONTRACT

3.1 Lease Agreement:

Following the evaluation of Price Bids, Letter of Intent will be issued in favour of Successful Bidder(s). The Letter of Intent (LOI) shall inter alia include number of Fiber Pair(s) against each line (in kilometre) allotted in favour of the bidder, Payment of Lease Rent, other terms and conditions etc. The successful bidder shall acknowledge & accept the LOI within a week un-conditionally. Conditional acknowledgement of the LOI shall be construed as non-acceptance of the offer.

- i. After due compliance of the conditions, if any, indicated in the LOI, receipts of acknowledgement of LOI, submission and acceptance of PBG, receipt of lease rent etc., Lease Agreement for 10 years will be signed within 30 days from the date of issue of LOI or any extension thereof. This period of lease may be extended by up to 5 years upon mutual Agreement. The Bidder will have to enter into a Lease Agreement with MPPTCL setting out all terms and conditions including those mentioned in the RFP, Pre-Bid minutes if any, Letter of Intent including Financial Proposal etc. The Representative of the Bidder, who has been authorized by the Board of Directors of the Bidder, shall sign on behalf of Bidder. The Lease Agreement shall be signed by the Chief Engineer (Procurement) Jabalpur on behalf of MPPTCL.
- ii. The Lease Agreement Documents shall include the following, which shall be deemed to form an integral part of the Lease Agreement and they are intended to be complementary and mutually explanatory and shall be read as a whole.
 - a. Lease Agreement in the prescribed format.
 - b. RFP Document.
 - c. Pre-Bid minutes, if any.
 - d. Technical and evaluated Financial Proposal. Any significant correspondence made between MPPTCL and Lessee prior to the Award of Lease Agreement except to the extent of repugnancy.
 - e. Letter of Intent

3.2 Notification / Communication:

MPPTCL shall make necessary communication to its concerned field offices about the leasing of Spare Dark Fiber of OPGW laid on EHT Lines, for operation of telecom activities by using leased dark fiber by the Lessee as per terms of Lease agreement immediately after execution of Lease Agreement. The Company shall also take immediate steps to hand over the Dark Fiber and Space required for installation of Terminal equipments, within 30 days from the date of execution of Lease Agreement.

3.3 Date of Commencement / Effective Date:

The Authority shall handover the allocated Fibers to the Lessee within 30 days from the date of signing of the Lease Agreement. The date of handing over of dark fiber will be considered as commissioning date and it will be termed as "Effective Date".

In an event there is delay in handing over of Fiber to Lessee i.e. beyond 30 days from the date of execution of Lease Agreement and the reasons of delay are not attributable to the Lessee, the actual handing over/commissioning date shall be termed as "Effective Date". In case there is delay on the part of Lessee in taking over of fiber, the Effective Date shall be 30 days from the date of issue of LOI. Hand Over Certificate as per Schedule-II shall be signed at the time of handing over of fibers on MPPTCL network.

3.4 Maintenance Facilities:

The Lessee shall maintain all requisite facilities at its own cost as required for proper functioning of equipment and communication system and other works under this Bid. The Lessee shall provide and maintain an office at a convenient location with staff in adequate number and of adequate competence, which shall remain available at all reasonable hours to receive communications.

3.5 Insurance:

The Lessee itself has to take insurance coverage of their personnel and for the equipment kept in Authority's premises, while working in the Authority's premises. Authority nowhere be concerned about any liabilities. All costs towards insurance liabilities covered under the contract will be to Lessee's account. The Lessee shall provide the Authority with a copy of all insurance policies and documents taken out by him in pursuance of 'Lease Agreement'. Such copies of documents shall be submitted to the Authority immediately after such insurance coverage. The Lessee shall also inform the Authority in writing at least sixty (60) days in advance, regarding the expiry, cancellation and/or change in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time. The risks that are to be covered under the insurance shall be comprehensive and shall include but not limited to the accident. The scope of such insurance shall cover their personnel as well as their assets.

3.6. Lessee's Right:

The Lessee will be given exclusive rights of use of leased fibers during the Agreement period which shall cease to exist on completion of the agreement period or on termination of the Lease Agreement.

3.7 Payment of Lease Rent & Co-location charges:

i. Billing of Lease Rent & Co-location charges:

Lease Rent per pair of dark fiber per Km per annum for each line / link awarded is for the First year. Lease Rent for subsequent years shall be increased @ 5% compounding per annum. Invoice shall be raised based on Lease Rent of One Pair of Dark Fiber per Km per Annum for each Link as per LOI, multiplied by the number of Pairs Leased out at the said rate and the total number of Kilometres of the length of the Line / Link. The applicable GST shall be applied over the Lease Rent. The billing of Co-location charges shall be done as specified in clause 2.1.5 of RFP.

ii. Payment of Lease Rent & Co-location charges:

The period of Lease shall be for 10 (Ten) Years. This period can be extended by upto 5 (five) years on mutually agreed basis. The Bidder has to pay Lease Rent and co-location charges upfront before beginning of each year. The first Year Invoice shall be issued along with LOI which is to be paid within 30 days from the date of Invoice. Lease Agreement will be executed only after receipt of first year Lease Rent and co-location charges. The Authority will raise Invoice for Annual Lease Rent and co-location charges for second year and onwards, on or before the completion of a year which shall be Effective Date of each year. The due date of Payment is 30 days from the Effective Date or the 30 days from the date of issue of Invoice whichever is later.

iii. Late Payment Surcharge:

The Lessee is required to pay the Annual Lease rent and co-locations charges before due date. There will be no penalty, if the payment is made within 30 days i.e. due date of payment. Payment beyond due date will attract Late Payment Surcharge @0.05% per day of delay in making payment beyond due date. The arrear amount continues to attract Late Payment Surcharge (LPS) till the date of making payment. The payment of Lease Rent and Co-location charges shall be made through RTGS directly to the designated Account of MPPTCL.

iv. Bullet Payment:

Where a Bidder fails to meet MAAT, it shall have to deposit the Net Present Value (NPV) of Five Years Lease Rent in one go before signing of Lease Agreement, as applicable for other bidders. That payment shall be made considering 5% p.a. escalation on year on year basis for five years. For calculation of NPV, discount rate of 5% p.a. shall be considered. However, payment of co-location charges shall be made upfront on yearly basis considering escalation as specified in RFP.

v. Invoicing of Lease Rent & Co-location charges including related works shall be done by **O/o Executive Director (CRA) Block No.3, Shakti Bhawan, Rampur, Jabalpur.**

3.8

Event of Default:

In an event Lessee repeatedly breaches the Lease Agreement on any of the following issues or occurrences which continue even after giving 15 days of notice for more than two times in writing to the Lessee, shall constitute Event of Default on the part of the Lessee;

- i. Failure to respond or carry out the rectification of Material, Plant of the MPPTCL damaged, if any during the work executed by Lessee;
- ii. Failure to pay Annual Lease Rent Amount within three months from the due date of payment under the Lease Agreement;
- iii. Any breach of contract or fraud under the contract;
- iv. Lessee becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Lessee is a corporation, a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Lessee takes or suffers any other analogous action in consequence of debt, the MPPTCL will be at liberty:
 - a) to terminate the Lease Agreement forthwith by notice in writing to the Lessee or to liquidator or receiver or to any person with whom the Lease Agreement may become vested.
 - b) to give such liquidator, receiver or other person the option of carrying out the Lease Agreement subject to his providing a guarantee for the due and faithful performance of the Lease Agreement up to an amount to be determined by the MPPTCL
- v. Revocation / Cancellation of Telecom License based on which the Lessee was selected.
- vi. For the reasons enumerated in clause 3.11 and 3.12 resulting into debarring / blacklisting of Lessee.

3.9 Termination of Contract:

When default occurs because of any of the conditions under “Event Of Default” without prejudice to any other right granted by law, or the Contract, MPPTCL may take up any or all of the following actions after giving adequate opportunity to the Lessee of being heard.

- i. Termination of the Contract.
- ii. Invocation of PBG;
- iii. Recover any losses and / or additional expenses, MPPTCL may incur as a result of Lessee’s default from PBG invocation amount.
- iv. refund of lease rent on pro rata basis for the remaining period from the advance Lease Rent paid by the Lessee, if any.
- v. If the PBG is insufficient, the Lessee shall pay the difference to the MPPTCL. The failure to do so by the Lessee shall attract legal proceedings at Court to recover the amount with interest & cost and issuance of Debarring / Blacklisting by the MPPTCL.
- vi. Upon termination of agreement, the Lessee’s authority to act in the area shall immediately cease. In such case Lessee is to co-operate in handing over back the Fibers in good condition to MPPTCL

3.10 Withdrawal / Reduction of Number of Fibers:

The Authority reserves the right to withdraw entire pairs of fiber or reduce the quantity for the remaining period of lease at any time during the contract period, if Authority requires fibers for its own requirement in emergency condition or for requirement of State / Central Government in extraordinary circumstances. In such case, Authority shall have to give Lessee a notice of 60 days for cancellation of the lease in full or part indicating the date with effect from which the withdrawal / cancellation will become effective. In such case, Authority shall refund back the lease rent on pro rata basis for the remaining period of the agreement out of the advance paid by the bidder at the beginning of the lease period.

3.11 Debarring of Lessee:

The Authority may temporarily ban the Lessee for a period ranging from one to three years on following ground:

- i. Persistent and deliberate violation of important terms of the contract;
- ii. Consistent Failure to pay the Annual Lease Rent in due time;
- iii. Misbehaviour to department Officials / Staff, or
- iv. Disregarding safety measures and causing any loss of life or property.

The debarred Agency shall not be eligible to participate in any future bid/tender floated by the Authority and other Power Sector Utilities of the State during the period of debarring.

3.12 Blacklisting of Lessee:

Where there are sufficient reasons to believe that the Lessee has committed serious offence under any of the following circumstances.

- i. If, found to be involved in any sort of tender fixing/cartel formation/ collusive bidding;
- ii. If, Lessee has submitted documents found to be false/fabricated/forged;
- iii. If Lessee has defrauded MPPTCL in terms of using Fiber;

- iv. If MPPTCL has suffered a huge financial loss due to the act of the Lessee, or,
- v. If, there is security consideration including questions of loyalty to State as per recommendations of Ministry of Home Affairs, the Authority shall Black-List the Lessee for a period of 3 years.

3.13 Dispute Resolution:

- a. Any dispute(s) or difference(s) arising out of or in connection with the Lease Agreement shall, to the extent possible, be settled amicably between the CE (Procurement) MPPTCL and the Lessee.
- b. If any dispute or difference of any kind, whatsoever, is not settled amicably, the Agency may make an application before the Managing Director, MPPTCL in respect of such dispute in writing within 15 days, from the date of such decision, action or omission.
- c. The Authority shall examine and deliberate the merits of the Lessee's complaint and the decision shall be communicated in writing to the Lessee within 30 days from the date of receipt of the application.

3.14 Arbitration:

- a. In the event of the Authority fails to notify its decision within thirty (30) days after being requested or the Lessee not being satisfied with the decision of Authority, the Lessee may require that the matters in dispute be referred to arbitration. Authority may also refer the matter to arbitration.
- b. The arbitration shall be conducted by three arbitrators, one each to be nominated by the Lessee and the Authority and the third to be appointed as a Presiding Arbitrator by both the arbitrators in accordance with the Arbitration & Conciliation Act 1996. If other party fails to appoint its arbitrator within sixty (60) days after receipt of a notice from the party invoking the Arbitration clause, the arbitrator appointed by the party invoking the arbitration clause shall become the sole arbitrator to conduct the arbitration.
- c. The place and venue of arbitration shall be at Jabalpur, Madhya Pradesh. The decision of the majority of the arbitrators shall be final and binding upon the parties.
- d. In the event of any of the aforesaid arbitrator's death, negligence, resignation or being unable to act for any reason, the party concerned shall nominate another arbitrator in place of the outgoing arbitrator. Save as hereinafter provided, during settlement of disputes and arbitration proceedings, both parties shall be obliged to carry out their respective obligations under the Contract.

3.15 Jurisdiction of Court:

The Contract shall be governed by and interpreted in accordance with laws of Union of India and the Courts of Jabalpur shall have exclusive jurisdiction in all matters arising under this Contract.

3.16 Force Majeure:

Definition: Force Majeure means any of the following events or circumstances, but not limiting to the same, if such events or circumstances are beyond the reasonable direct or indirect control and without the fault or negligence of the Party claiming Force Majeure and which results in such party's liability, notwithstanding its reasonable best efforts, to perform its obligations in whole or in part in the area of work assigned to it as per the Agreement.

- a. Lightning, storm, typhoon, flood, torrential rain, tidal wave, earthquake, landslide, epidemic or similar cataclysmic events affecting break down of Tower.
- b. Act of foreign enemy, war (whether declared or undeclared), revolution, civil commotion, terrorist Act, blockage, insurrection, or events such as arson, disturbance of public order, sabotage, explosion and Act of vandalism.
- c. Strike, lockouts or other industrial disputes or disturbances for a long period.
- d. Any legislation, law, directive, regulation, rule, decree, order, restraint or other action (including expropriation or compulsory acquisition) by a Public Sector entity or other governments and all supra-national, national or local agencies, authorities' departments, ministries and officials.

“Financial inability to perform or changes in market conditions shall not constitute an event of Force Majeure.”

Effect of Force Majeure: In the event either party is rendered unable by reason of an event of Force Majeure in effect after the date thereof to perform wholly or in part, any obligation imposed upon it, then upon such Party's giving prompt notice the obligations of such party shall be suspended or excused to the extent affected by such event of Force Majeure.

Time for performance of the relative obligations suspended by the Force Majeure shall then be extended by the period of delay, which is directly caused by the event of Force Majeure. The party giving such, notice shall be excused from timely performance of its obligations for so long, as the relevant, event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed, provided the party affected by the Force Majeure, makes due efforts to negate the effect thereof to fulfil its obligations.

If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the Contract period, the Parties will attempt to develop a mutually satisfactory solution, failing which either Party may terminate the Contract by giving a notice to the other, but without prejudice to either Party's right to terminate the Contract.

3.17 Confidential Information:

Both Lessee and Authority undertake to each other to keep confidential all information (written as well as oral) concerning the business and affairs of the other, which has been obtained or received as a result of the discussions leading up to or the entering of the Contract. After the entering of the contract, Authority and the Lessee shall keep confidential and shall not, without the written consent of the other Party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other Party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Lessee may furnish to its Associates such documents, data, and other information it receives from Authority to the extent required to perform its work under the Contract, in which event the Lessee shall obtain from such Associates an undertaking of confidentiality similar to that imposed on the Lessee under this Clause. Authority shall not use such documents, data, and other information received from the Lessee for any purposes unrelated to the Contract. Similarly, the Lessee shall not use such documents, data, and other information received from Authority for any purpose other than the design, procurement, or other work and services required for the performance of the Contract. The obligation of a Party under Clauses above, however, shall not apply to information that:

- Authority or Lessee need to share with the institutions participating in the financing of the Contract;
- Now or hereafter enters the public domain through no fault of that Party;
- Can be proven to have been possessed by that Party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other Party; or
- Otherwise lawfully becomes available to that Party from a third Party that has no obligation of confidentiality.

The above provisions of this section shall not in any way modify any undertaking of confidentiality given by either of the Parties hereto prior to the date of the Contract. Each of the Parties to this contract, undertakes to the other to take all such steps as shall from time to time be necessary to ensure compliance with the provisions of the above clauses by its employees, agents and sub- Lessee. The provisions of this Section survive completion or termination, for whatever reason, of the Contract.

3.18 Indemnity:

The Lessee hereby agrees to indemnify Authority, for all conditions and situation mentioned in this clause, in a form and manner acceptable to Authority. The Lessee agrees to indemnify Authority and its officer/employees/agents (Authority Indemnified Persons) from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Contract period out of:

Any negligence or wrongful act or omission by the Lessee or its agents or employees or any third Party associated with Lessee in connection with or incidental to this Contract or, any infringement of patent, trademark/copyright or industrial design rights arising from the use of the Services or any part thereof.

3.19 Limitation of Liability:

Lessee shall remain liable for any damages due to its negligence. The amount of liability of the Lessee shall however, be limited to and not exceeds 100% of the value of the contract. Consequential loss including indirect damages such as loss of profit, business, revenue, goodwill or, anticipated savings is excluded from the claim for compensation.

3.20 Defence of Claims:

If any proceedings are brought or any claim is made against MPPTCL arising out of the matters referred to in scope of work, MPPTCL shall promptly give the Lessee a notice thereof, and the Lessee may at its own expense and in MPPTCL's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claims.

If the Lessee fails to notify MPPTCL within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then MPPTCL shall be free to conduct the same on its own behalf and seek reimbursement of all expenses from Lessee.

3.21 Change in Law:

Unless otherwise specified in the Contract, if after the date of the Invitation for Bids, any law, regulation, ordinance, order or by-laws having the force of law is enacted, promulgated, abrogated, or changed in India where the sites is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects delivery of any obligation by either party to lease agreement, then such obligation shall be correspondingly increased or decreased equitably, to the extent that the either party has thereby been affected in the performance of any of its obligations under the Contract.

3.22 Waiver:

Subject to Severability clause below, no relaxation, forbearance, delay, or indulgence by either Party in enforcing any of the terms and conditions of the Contract or the granting of time by either Party to the other shall prejudice, affect, or restrict the rights of that Party under the Contract. Neither shall any waiver by either Party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

Any waiver of a Party's rights, powers or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the Party granting such waiver, and must specify the right and the extent to which it is being waived.

3.23 Severability:

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract or the contract as a whole and the remaining provisions of the contract shall remain in full force and effect.

3.24 Notices:

All notices and other communications under this contract must be in writing, and must either be mailed by from the party's registered email with due acknowledgement or be hand delivered with proof of its having been received. If mailed, all notices will be considered as delivered after 2 (Two) days, of the notice having been mailed. If hand delivered, all notices will be considered delivered, when received by the Party to whom the notice is meant and sent for. All notices under this contract shall be sent to or delivered to the nodal/authorized person as specified by the Parties. A Notice shall be effective when delivered or from the Notice's effective date whichever is later.

3.25 Country of Origin:

All imported equipment to be used by the Lessee are subject to extant guideline of Govt. of India. Lessee shall have to be strictly abide by the same.

3.26 Lien:

In case of any lien or claim pertaining to the work and responsibility of the Lessee for which Authority might become liable, it shall have the right to recover such claim/amount from the Lessee.

3.27 SERVICE LEVEL AGREEMENT (SLA):

A. MAINTENANCE LEVEL COMMITMENTS:

Authority shall endeavour to maintain the dark fiber provided to Lessee at 98% availability on monthly basis, with the exception of Force Majeure and Planned Outages, MTTR clauses. Availability of Fibers shall be certified by concerned Telecom Division of Authority based on failure record.

B. COMPENSATION FOR FAILURE TO MAINTAIN SERVICE LEVEL:

- a) The uptime percentages will be calculated up to two decimal points.
- b) The downtime will be calculated in **Minutes**, rounded up to the two decimal points.
- c) The Penalty will be applicable only to individual links separately. Thus, if the availability of only particular link goes below 98 %, the penalty will be imposed only for this link.
- d) The monetary value of the penalty on monthly basis shall be computed by taking/evaluating the compounded downtime and shall be adjusted in the next year billing.

C. FAULT REPORTING MECHANISM:

- a. Party shall lodge its complaints about fault link-wise and its fiber pair-wise, with Authority via e-mail: with a copy to from a specific email-..... with specific complaint number.
- b. Authority, after repairing the fault, will inform back to the Party.

D. MEAN TIME TO RESOLVE (MTTR):

The Mean time to resolve for any problem reported by the Party to MPPTCL is as per the table given below:

Network Component	Mean Time to Resolve
MPPTCL Dark Fiber Network	8 hours

MTTR shall be calculated from 08:00 Hours to 23:00 Hours only. For faults between 23:00Hours and 08:00 Hours, MTTR consideration shall start from 08:00 Hours next day.

If the problem is resolved within the MTTR in a section, the MTTR will not be considered as outage time. If the outage is beyond 8 hours in a particular month in a particular section, the interruption time beyond 8 hours will be treated as outage time in that section for a month.

E. PLANNED OUTAGES:

MPPTCL shall be entitled to keep maximum of 4 hours of planned Outages per window with maximum 2 maintenance windows per month. Such outage time shall not be treated as part of downtime for Service Level calculations. MPPTCL shall give minimum 48 hour notice in case of any such planned outages.

F. EXCLUSION CLAUSE:

- a. MTTR.
- b. Force Majeure condition as mentioned in the RFP.
- c. Planned outage window.
- d. Periods where any Link switched off by Party for its own reasons. It is the onus of Party to ensure that onsite equipment for links are powered ON and Network monitoring tools, if any that are used by Party filters out the time period of link being voluntarily switched off.
- e. Periods where the failure of any components or equipments belonging to Party.

G. LINK DOWNTIME:

The downtime of link = [(Time of restoration-Time of Fault) – (Exclusion period)]

H. CALCULATION OF % UPTIME:

The link availability in terms of % uptime is calculated as below and then rounded up to two decimal points:

For Each link, uptime percentage will be calculated on monthly basis:

$$\% \text{ Uptime} = \frac{(\text{D days X 24 hours X 60}) - \text{Link down time (t)}}{(\text{D days X 24 hours X 60 min.})} \times 100$$

[D= No. of days in a particular month]

I. PENALTY:

All the penalties shall be calculated for the duration between the opening & closing mail leaving exclusion period as mentioned above.

The amount of monthly penalty, if any, shall be deducted from the annual invoices while making payments to MPPTCL. As payment term is Annual in advance, MPPTCL will allow Party to adjust applicable SLA credit against subsequent year annual advance payment.

J. PENALTY CALCULATION SLABS:

Down time will be calculated per fiber pair per link basis. Thus SLA, outage reporting and penalty calculation will be in that format only

As soon as the Monthly uptime falls below this guaranteed level of 98 % for OPGW, penalty will be calculated in following table A.

- i. Uptime from 97% to less than 98%- 1.25 times the Down value
- ii. Uptime from 95% to less than 97%- 1.50 times the Down value
- iii. Uptime from 93% to less than 95%- 1.75 times the Down value
- iv. Uptime from 90% to less than 93%- 2.00 times the Down value
- vi. Uptime below 90% - 2.5 times the Down value

K. CALCULATION OF DOWN TIME VALUE AND PENALTY:

Rate of Fibre = H Rs. per fibre pair per Km per annum (as obtained from bid on which lease was awarded)

Rate of one fibre pair per minute per Km = $H / (365 * 24 * 60)$ Rs.

Monthly Link down Time = T min

Length of Faulty Link (where fault found) = L Km

No. of faulty fibre pair = X

Down value = $[L * X * T * H / (365 * 24 * 60)]$ Rs.

Penalty for one link in one month will be calculated based on Down value as per above table A.

This process will be repeated cumulatively in all months for all links to get comprehensive total value after penalty compensation.

Maximum monthly Penalty to be levied shall not exceed 50 % of the Monthly charges for a particular link.

L. HAND OVER CERTIFICATE

Hand over certificate shall be signed as per Schedule-II at the time of handing over of Fibers on MPPTCL network. **The handing over activities of the fibers and co-location facilities shall be done by concerned Executive Engineer (Communication) in consultation with Executive Engineer (Testing Division) under intimation to O/o CE (Procurement), MPPTCL, Jabalpur.**

SECTION - 4

APPENDICES SCHEDULES & ANNEXURES

APPENDIX - I

APPENDIX - I

FORM-1

**Letter of Technical Proposal
(On Bidder's letter head)**

(Date and Reference)

To,

**The Chief Engineer (Procurement),
Madhya Pradesh Power Transmission Co. Ltd.,
Block No-3, Shakti Bhawan,
Rampur, Jabalpur (M.P.) – 482002.**

Sub: Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.

Dear Sir,

With reference to your RFP Document dated, I/we, having examined all relevant documents and understood their contents, hereby submit our Proposal for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use. The proposal is unconditional and unqualified.

2. All information provided in the Proposal and in the Appendices is true and correct and all documents accompanying such Proposal are true copies of their respective originals.
3. This statement is made for the express purpose for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.
4. I/We shall make available to the Authority any additional information it may deem necessary or require for supplementing or authenticating the Proposal.
5. I/We acknowledge the right of the Authority to reject our application without assigning any reason or otherwise and hereby waive our right to challenge the same on any account whatsoever.
6. I/We declare that:
 - (a) I/We have examined and have no reservations to the RFP Documents, including any Addendum issued by the Authority;
 - (b) I/We do not have any conflict of interest in accordance with Clause 2.4 of the RFP Document;
 - (c) I/We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice, as defined in Clause 2.32 of the RFP document, in respect of any tender or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State; and

- (d) I/We hereby certify that we have taken steps to ensure that in conformity with the provisions of Clause 2.32 of the RFP, no person acting for us or on our behalf will engage in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.
7. I/We understand that you may cancel the Bidding Process at any time and that you are neither bound to accept any Proposal that you may receive nor to select the Bidder, without incurring any liability to the Bidders in accordance with Clause 2.10 of the RFP document.
8. I/We certify that in regard to matters other than security and integrity of the country, we or any of our Associates have not been convicted by a Court of Law or indicted or adverse orders passed by a regulatory authority which would cast a doubt on our ability to undertake the Project or which relates to a grave offence that outrages the moral sense of the community.
9. I/We further certify that in regard to matters relating to security and integrity of the country, we have not been charge-sheeted by any agency of the Government or convicted by a Court of Law for any offence committed by us or by any of our Associates.
10. I/We further certify that I have furnished certificate regarding sharing of Land Border with India in Form-9 and I am eligible to submit bid against this RFP.
11. I/We further certify that I have furnished Affidavit in Form -10 regarding “No Officer / Employee or relative of MPEB / MPSEB or its successor Companies”.
12. I/We further certify that no investigation by a regulatory authority is pending either against us or against our Associates or against our CEO or any of our Directors / Managers / employees.
13. I/We hereby irrevocably waive any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority and / or the Government of India in connection with the Leasing of Spare Dark Fibers of OPGW Network for Commercial Use or in connection with the Bidding Process itself in respect of the above mentioned Project.
14. The Bid Security of **Rs. 15,58,000/- (Rupees Fifteen Lakh Fifty Eight thousand Only)** has been furnished in accordance with the RFP document.
15. I/We agree and understand that the proposal is subject to the provisions of the RFP document. In no case, shall I/we have any claim or right of whatsoever nature if the Dark Fibers are not allocated to me/us or our proposal is not opened or rejected.
16. I/We agree to keep this offer valid for **180 (One hundred eighty) days** from the Proposal Due Date specified in the RFP.
17. A Power of Attorney in favour of the authorized signatory to sign and submit this Proposal and documents is attached herewith in Form-4.

18. In the event of my firm being selected for allotment of Dark Fibers, I agree to enter into Lease Agreement in accordance with the Schedule-I of the RFP. We agree not to seek any changes in the aforesaid form and agree to abide by the same.

19. I have studied RFP and all other documents carefully and also surveyed the Project site. We understand that we shall have no claim, right or title arising out of any documents or information provided to us by the Authority or in respect of any matter arising out of or concerning or relating to the Bidding Process including the award of Lease.

20. The Financial Proposal is being submitted separately. This Technical Proposal read with the Financial Proposal shall constitute the Application (Bid) which shall be binding on us.

21. I agree and undertake to abide by all the terms and conditions of the RFP Document. In witness thereof, I submit this Proposal under and in accordance with the terms of the RFP Document.

22. I/We, the undersigned do hereby declare that, I/We have never failed to perform satisfactorily in any work of MPPTCL or other successor companies of MPSEB / Govt. of Madhya Pradesh / Central Govt./PSU or in any Govt. funded Project during last three financial years (and the current financial year) and I/We do not stand currently debarred/blacklisted (nor any litigation pending) by Government of India/Government of Madhya Pradesh/Central PSUs/State PSUs of any State of India/MPPTCL or other successor companies of MPSEB .

23. I/We, the undersigned do hereby declare that, I/We have not been declared as Insolvent or referred to National Company Law Tribunal (NCLT) under the Insolvency and Bankruptcy Code (IBC), 2016.

24. In the event, any information is found out contrary to the above either during the finalization of the tender or during the execution of the Lease Agreement, My/Our bid / Lease Agreement shall be liable for rejection / cancellation / termination without any notice with forfeiture of EMD/PBG at the sole discretion of MPPTCL.

Yours faithfully,

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX – I

FORM-2

Particulars of Applicant

1.1	Title of Project: : Leasing of Spare Dark Fibers of OPGW Network for Commercial Use
1.2	State the following: Name of Company or Firm: Legal status (e.g. incorporated private company, unincorporated business, partnership etc.): Country of incorporation: Registered address: Year of Incorporation: Year of commencement of business: Principal place of business: GST Registration no.: PAN No.: TAN No : Brief description of the Company including details of its main lines of business Name, designation, address and phone numbers of authorized signatory of the Applicant: Name: Designation: Company: Address: Phone No.: Fax No.: E.mail address:

Yours faithfully,

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - I

FORM-3

**Statement of Legal Capacity
(To be forwarded on the letter head of the Bidder)**

(Date and Reference)

To,

**The Chief Engineer (Procurement),
Madhya Pradesh Power Transmission Co., Ltd.,
Block No-3, Shakti Bhawan,
Rampur, Jabalpur (M.P.) – 482002.**

Sub: Leasing of Spare Dark Fibers of OPGW Network for Commercial Use

Dear Sir,

I/We hereby confirm that we, the Bidder satisfy the terms and conditions laid down in the RFP document.

I/We have agreed that (insert individual's name) will act as our Authorized Representative on our behalf and has been duly authorized to submit our Proposal. Further, the authorized signatory is vested with requisite powers to furnish such proposal and all other documents, information or communication and authenticate the same.

Yours faithfully,

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - I

FORM-4

Power of Attorney

Know all men by these presents, we,..... (name of Firm and address of the registered office) do hereby constitute, nominate, appoint and authorize Mr./Msson/daughter/wife..... and presently residing at, who is presently employed with us and holding the position of as our true and lawful attorney (hereinafter referred to as the “Authorized Representative”) to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Proposal in response to RFP issued by the MPPTCL (the “Authority”) for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use, including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre-bid and other conferences and providing information / responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts and undertakings consequent to acceptance of our proposal and generally dealing with the Authority in all matters in connection with or relating to or arising out of our Proposal for the said Project and / or upon award thereof to us till the entering into of the Lease Agreement with the Authority.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Authorized Representative pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Authorized Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS.....DAY OF , 2023

For
(Signature, name, designation and address)

Witnesses:

- 1.
- 2.

Notarized

Accepted

.....
(Signature, name, designation and address of the Attorney)

Notes:

The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure. The Power of Attorney should be executed on a non-judicial stamp paper of Rs.1000/- (One thousand) and duly notarized by a notary public.

Wherever required, the Bidder should submit for verification the extract of the charter documents and other documents such as a resolution/power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.

For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, Bidders from countries that have signed the Hague Legislation Convention 1961 need not get their Power of Attorney legalized by the Indian Embassy if it carries a conforming Apostille certificate.

APPENDIX - I

FORM-5

BID SECURITY / EMD

**(To be executed on Non-Judicial Stamp Paper of appropriate legal value
as per prevailing rules)**

Bank's Name and complete address with PIN code of Issuing Branch or Office.....
.....
FAX No.: e-mail:.....

Beneficiary: Chief Engineer (Procurement),
M.P. Power Transmission Company Limited,
Block No.3, Shakti Bhawan, Rampur,
Jabalpur – 482008, Madhya Pradesh
e-mail: mptransco@nic.in Fax No. +91-761-2665593

Bank Guarantee No.:
Date:.....

We have been informed that name of Bidding firm. . . . (herein after called "the Applicant") has submitted to you its offer dated (herein after called "the Proposal") for **Leasing of Spare Dark Fibers of OPGW Network for Commercial Use** in accordance with RFP. Furthermore, we understand that, according to your conditions, Proposals must be supported by an Bid Security Bank guarantee.

At the request of the Applicant , we name of Bank. . . . hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of amount in figures(amount in words) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the conditions of RFP.

This guarantee shall be valid up to _____.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date. The courts of Jabalpur shall have exclusive jurisdiction in all matters of disputes in respect of above Bank Guarantee.

In the event of any claim under this guarantee, payment shall be immediately effected to beneficiary Bank through RTGS in the following account:

NAME: M. P. POWER TRANSMISSION COMPANY LTD.

ACCOUNT NO. : 552901110050000

IFSC CODE: UBIN0555291

BRANCH: UNION BANK OF INDIA, MADAN MAHAL, JABALPUR

In case of failure of RTGS, the payment shall be made through Demand Draft immediately.

.....*Bank's seal and authorized signature(s)*.....

APPENDIX - I

FORM-6

UNDERTAKING – I

The following declaration/Undertaking must be submitted by all the bidders on non-judicial stamp paper worth Rs. 500/- duly notarized

I proprietor/partner/Director/Authorized Signatory of M/s
(Sole Bidder) having its Registered Office/Head Office at giving the following undertaking ;

1. That, M/s have participated against TR No. due for opening on for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.
2. That, I have gone through the terms and conditions of tender document and aware with all the requirement of the tender specification.
3. That, the profile of M/s(Sole Bidder) is as under:-
 - (a) Address of Registered Office-
 - (b) GST Registration No. of the firm-
 - (c) PAN No. of the firm -
 - (d) E-mail address of the firm -
 - (e) Mobile No. -.....
 - (f) Name & Branch address of bidder banker -
 - (g) Bank Account of the firm -
 - (h) IFSC Code of the branch for RTGS -
4. That I/We undertake that we have participated in the tender as..... (Sole Bidder).
5. That I/We confirm that there is no deviation with the commercial terms & conditions and technical requirement of the Tender Specification.
6. That the bidding firm M/s..... meet qualifying criteria stipulated in clause 2.3.1 of RFP.
7. **Regarding Black-listing / Debarring:-**

I/We, the undersigned do hereby declare that, I/We have never failed to perform satisfactorily in any work of MPPTCL or other successor companies of MPSEB / Govt. of Madhya Pradesh / Central Govt./PSU or in any Govt. funded Project during last three financial years (and the current financial year) and / or I/We do not stand currently debarred/blacklisted (nor any litigation pending) by Government of India/Government of Madhya Pradesh/Central PSUs/State PSUs of any State of India / MPPTCL or other successor companies of MPSEB.
8. **Regarding Conflicting Interest:-**

I/We _____ Sole Proprietor / Partner / Director / authorized signatory of M/s _____ (Sole Bidder) undertake that the bidding

firm do not have conflict of interest with any other parties in this bidding process as per provision of ITB Clause 2.4 of Section-2 of the tender.

9. Pending Litigation:

I/We hereby undertake and submit that all litigation, arbitration and other claims whether pending, threatened or resolved in the last three financial years (and the current financial years) , with the exception of immaterial claims with cumulative possible impact are equal to% i.e. less than 100% of bidder net worth. Authority may disqualify bidders in the event that the total amount of pending or threatened litigation, arbitration or other claims represents hundred percent (or more) of the bidder's net worth and is not eligible to be considered.

10. Regarding serving or employee(s) of MPPTCL:

I/We confirm that I / we am / are not an officer / employee or relative of any of its employee of MPEB / MPSEB or its successor companies e.g. (MPPTCL, MPPMCL MPPGCL, MP Poorva KVVCL, MP Madhya KVVCL and MP Paschim KVVCL).

This information is true to the best of my knowledge and belief. In case if the above stated information is found false / incorrect at any stage, MPPTCL shall have all the right to take any action as per tender / enquiry including cancellation / termination of contract placed on above referred firm without any liability on MPPTCL.

11. I/We undertake that correct information regarding Land Border sharing has been given in the enclosed prescribed formats in the bid document.

12. I/We, the undersigned do hereby declare that, I/We have not been declared as Insolvent or referred to National Company Law Tribunal (NCLT) under the Insolvency and Bankruptcy Code (IBC), 2016

13. Regarding Information / details given:

I/We,....., the Sole proprietor / partner / Director authorized signatory of M/s.....participating in the bidding process against tender No TR.....undertake that I/we am/are not interested as a proprietor and/or partner/Director in any other firm participated in the tender for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use and specifically undertake that the bidding firm/Company:-

- (i) Not follow & shall not follow unethical/unfair/fraudulent practice in any manner.
- (ii) Has no conflict of interest with any bidder/firm participating in the tender.
- (iii) Not concealing any material information.
- (iv) Not given any misleading fact or statement in the offer/bid submitted against the tender.
- (v) Has not been debarred/blacklisted for future business with MPPTCL/other Discom of MP.

In case, at any stage, if the above declarations are found false or incorrect, MPPTCL will have full right to cancel /terminate the contract, if awarded and forfeit the EMD/Bid Security & Performance Security Deposit even at a later date i.e. after opening of Price Bid. Further the MPPTCL shall be free to take any punitive/legal action against the bidding firm as may be deemed fit including filing of First Information Report (FIR) & Criminal case and all the consequences in respect of above undertaking shall be in our account only.

Note: The undertaking should be given by the proprietor / Director / Authorized signatory of the M/s..... (Sole Bidder)

PLACE:

DATE

SIGNATURE OF TENDERER

NAME IN FULL

**DESIGNATION/ STATUS IN THE
FIRM**

COMPANY SEAL

APPENDIX - I

FORM-7

UNDERTAKING – II

**ON THE LETTER HEAD OF THE CHARTERED ACCOUNTANT FIRM
CERTIFICATE
TO WHOM SO EVER IT MAY CONCERN**

This is to certify that “M/s _____ (Sole Bidder)” PAN: _____ GSTIN: _____ having its registered/ Head office at _____ (hereinafter referred to as Firm) have participated in the Tender No. _____ of MPPTCL.

As per the terms and conditions of the tender the Financial Particulars of the Firm participating in the aforesaid tender are as follows” (all the amount are in Rs. crore)

- a) For the Financial Criteria, the last three Financial Years are _____, _____ & _____.
- b) The Net worth calculated as defined in the tender as per last audited Financial Year balance sheet of the Firm is positive.
- c) Average Annual Turnover of the Firm (excluding non-operating income) is Rs. _____ Crore for last three financial years as defined in the RFP.
- d) We certify that the M/s _____ (Sole Bidder) fulfills the financial criteria as per the terms and conditions of the RFP no _____.
- e) We hereby confirm that the aforesaid information is as per requirement of the tender no. _____. The certification has been done on the basis of the information made available and the Audited Standalone Financial Statements of M/s _____ (Sole Bidder).

I am aware that the Company (MPPTCL, Jabalpur) is relying on this certificate as a valid proof of the responsiveness regarding the Financial Capability of the Firm as per the various clauses of the bid document of the tender no. _____.

For, _____
Chartered Accountant Firm,
FRN No. _____

CA. _____
(Designation _____)
M. No. _____
UDIN No. _____

Date: _____
Place: _____

Note:

- (i) *The information given at (b) & (c) above must appear in the website of the Institute of Chartered Account against the UDIN Number as given above.*

APPENDIX - I

FORM-8

UNDERTAKING-III

UNDERTAKING FOR BULLET PAYMENT

RFP No.

Certification by the bidder

I _____, Son/Daughter of _____, do solemnly affirm and state as under:

1. That I am the _____ <<Designation of the authorized signatory>> of _____ and I am duly authorized to furnish this undertaking declaration on behalf of M/s _____.
2. That M/s _____ has submitted its bid no _____ dated _____ against RFP document no _____ dated _____ for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.
3. I on behalf of M/s _____ undertake, if so decided, I am agreeable to deposit five years Lease Rent upfront based on NPV in one installment before signing of Lease Agreement. The payment shall be made considering discount rate and year on year escalation rate as defined in RFP.
4. I confirm that I am aware of the implication of the above undertaking and our liability on account of wrong declaration.

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - I

FORM-9

**Certification by the bidder regarding sharing of land border with India
(to be submitted on Company's Letter Head)**

RFP No

I _____, Son/Daughter of _____, do solemnly affirm and state as under:

1. That I am the _____ <<Designation of the authorized signatory>> of _____ and I am duly authorized to furnish this undertaking declaration on behalf of _____.

2. That _____ has submitted its bid no _____ dated _____ against RFP document no _____ dated _____ for Leasing of Spare Dark Fibers of OPGW Network for Commercial Use.

3. We have read and understood the provision of order no. F.No. 6/18/2019-PPD (Order Public Procurement No.1) dtd. 23.07.2020 regarding "Restriction under Rule 144 (xi) of General Financial Rules" and F. No. 6/18/18/2019-PPD (Order Public Procurement No.2) dtd. 23.07.2020 regarding "Exclusion from Restriction under Rule 144 (xi) of the General Financial Rules" issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, Government of India, [hereinafter collectively referred as "DoE Order"] and any subsequent modifications/Amendments, if any.

4. Particularly, we, the bidder, have read the clause regarding restriction on procurement from a 'bidder of a country which shares a land border with India' and on sub-contracting to contractors from such countries.

We certify that we, the bidder [and/or our proposed Associates] is/are not from such a country and will not subcontract any work to a subcontractor/ sub vendor from such countries and is eligible to be considered.

OR

We certify that we, the bidder [and our proposed Associates] and/or our subcontractor/ sub vendor is/are from such country which share a land border with India' as brought out in the aforementioned orders. Accordingly, certificate of registration by DPIIT is enclosed.

Tick (√) in the box () as applicable.

5. We further declare that any misrepresentation or submission of false/forged document/ information in this regard shall be dealt with as per the provisions of Integrity Pact and / or bidding Documents and/or MPPTCL's policy and procedures.

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

Note: This undertaking shall be certified by the authorized signatory of the bidder, signing the bid.

APPENDIX - I

FORM-10

Affidavit for being “No Officer / Employee or relative of MPEB/ MPSEB or its successor companies”

(On non-judicial stamp paper worth Rs.100/- duly notarized)

RFP No.

I _____, Son /Daughter of _____, do solemnly affirm and state as under:

1. I _____ proprietor / authorized signatory / owner of M/s _____ Place _____ solemnly affirm and stated that I / we am / are not an officer / employee or relative of MPEB / MPSEB or its successor companies e.g. (MPPTCL, MPPMCL MPPGCL, MP Poorva KVVCL, MP Madhya KVVCL and MP Paschim KVVCL)

2. This information is true to the best of my knowledge and belief. In case if the above stated information is found false / incorrect at any stage, MPPTCL shall have all the right to take any action as per tender / enquiry including cancellation / termination of contract placed on above referred firm without any liability on MPPTCL.

Place –

Date -

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

Note: This undertaking shall be certified by the authorized signatory of the bidder, signing the bid.

A person shall be deemed to be a relative of another if: -

- (a) They are members of a Hindu undivided family, or
- (b) They are husband and wife, or
- (c) The one is related to the other in the manner indicated below:-

S. No.	Relatives
1.	Father (including step-father)
2.	Mother (including step-mother)
3.	Son (including step-son)
4.	Son's wife
5.	Daughter
6.	Daughter's husband
7.	Brother (including step-brothers)
8.	Sister(including step-sisters)

APPENDIX - I

FORM-11

SCHEDULE OF QUANTITY

Schedule of fiber intended to be taken on lease by the Bidder

Sr. No.	Sr. No. as per Annexure-II	Description of the Line / Link for which fiber lease is intended		No of Fiber pair required	Distance in Km	Total (Fiber Pair Km)	Remarks if any
		Station from	Station To				
1							
2							
3							
4							
5							
Grand Total (Fiber Pair Km)							

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - I

FORM-12

CO-LOCATION SPACE REQUIREMENT

Bidders shall specify his Co-Location space requirement at MPPTCL Sub-stations in advance.

Sr No	Substation Name	Co-location Space- (Closed 4ft x4ft) A	Co-location Space- (Open 8 ft x 10 ft) B
1			
2			
3			
4			
5			
6			
	Total Space	[Total A]	[Total B]
	Rate in Rs/year/substation (First Year)	Rs 3,00,000/-	Rs 1,000/sq. ft.
	Total Amount in Rs (First Year)		

Note: The GST shall be applicable extra

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - I

FORM-13

CHECK LIST

S. No.	Formats	Reference	Declaration strike out whichever not applicable
1	Technical Proposal	FORM-1	Yes/No
2	Bidder Information	FORM-2	Yes/No
3	Statement of Legal Capacity	FORM-3	Yes/No
4	Power of Attorney	FORM-4	Yes/No
5	Bid Security / EMD	FORM-5	Yes/No
6	Undertaking -I	FORM-6	Yes/No
7	Undertaking -II	FORM-7	Yes/No
8	Undertaking-III For Bullet Payment	FORM-8	Yes/No
9	Certification by the bidder regarding sharing of land border with India	FORM-9	Yes/No
10	Affidavit for being "No Officer / Employee or relative of MPEB/ MPSEB or its successor companies"	FORM-10	Yes/No
11	Schedule of Quantity	FORM-11	Yes/No
12	Co-Location Space Requirement	FORM-12	Yes/No

(Signature, name & designation of the authorized signatory)

(Name and seal of the Bidder)

APPENDIX - II

Appendix-II

FORM-1

FINANCIAL PROPOSAL

Financial Proposal in .xls Sheet will be available in the official e-tender portal of MPPTCL.

Financial Proposal (in .xls format) shall be filled in by the Bidder(s) and uploaded in the official e-Tender Portal of MPPTCL only.

Tender Inviting Authority: CE(Procurement), MPPTCL, Jabalpur					
Name of Work : LEASING OF SPARE DARK FIBERS OF OPGW NETWORK FOR COMMERCIAL USE					
RFP No. TR-17/2023					
Name of the Bidder/ Bidding Firm:					
<u>FINANCIAL PROPOSAL</u>					
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)					
NUMBER #	TEXT #	NUMBER #	TEXT #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Amount in Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT in words
1	2	3	4	5	6
1	LEASING RATE PER PAIR OF FIBER PER KILOMETER PER ANNUM FOR FIRST YEAR IN RS. (INCLUDING O&M CHARGES)	1.0	LS		INR Zero Only
2	GOODS & SERVICE TAX@18%	1.0	LS		INR Zero Only
3	TOTAL LEASING RATE PER PAIR OF FIBER PER KILOMETER PER ANNUM FOR FIRST YEAR (INCLUDING GST) (IN RS.)	1.0	LS		INR Zero Only

SCHEDULES

SCHEDULE-I

LEASE AGREEMENT

THIS AGREEMENT (herein after called the “Agreement”) made on the ____ day of ____, 2023.
BETWEEN

Madhya Pradesh State Transmission Company Limited, A Govt. of Madhya Pradesh Undertaking having its registered office at Block No. 2, Shakti Bhawan, Rampur, Jabalpur-482008 (hereinafter called “the Authority” which expression shall include their respective successors and permitted assigns, unless the context otherwise requires), and (2) [*name of Lessee*], a Company incorporated under The Companies Act- 1956/ The Companies- Act-2013 and having its principal place of business at [*address of Lessee*] (hereinafter called “the Lessee” which expression shall include their respective successors and permitted assigns).

WHEREAS the Authority has invited the RFP for Leasing out spare dark fibers of OPGW Network in the State of Madhya Pradesh vide no:

AND WHEREAS the Lessee had furnished its proposal expressing its interest to take Lease of spare dark fibers of OPGW Network established by Authority for commercial use on payment of lease rent in accordance with the terms and conditions set-forth in the RFP and this Agreement;

AND WHEREAS the Authority on acceptance of proposal submitted by Lessee in response to aforesaid RFP, selected the Lessee for award of Lease of spare dark fibers of OPGW Network established by Authority on payment of Lease rent for commercial use vide LOI ref. no

AND WHEREAS pursuant to acknowledgement of the LOI by the Lessee, the Authority desires to lease out dark fibers to Lessee on annual rent basis for its use by lessee to provide Telecom Service and the Lessee has agreed to same subject to the terms and conditions hereinafter appearing.

NOW, THEREFORE, IT IS HEREBY AGREED as follows:

Article 1 Lease Agreement Documents:

1.1 Lease Agreement Documents:

The following documents shall constitute the Lease Agreement between the Authority and the Lessee, and each shall be read and construed as an integral part of the Lease Agreement:

- (a) The Letter of Intent
- (b) Price Proposal submitted by the Lessee
- (c) RFP Document alongwith all addenda (if any)
- (d) Pre-bid minutes, if any
- (e) Filled in Forms submitted along with proposal.
- (f) Any other documents

1.2 Order of Precedence:

In the event of any ambiguity or conflict between the Lease Agreement Documents listed above, the order of precedence shall be the order in which the Lease Agreement Documents are listed in Article 1.1 (Lease Agreement Documents) above.

1.3 Definitions:

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions.

Article 2 Terms of Payment:

2.1 Billing of Lease Rent & Co-location charges:

Lease Rent per pair of dark fiber per km per annum for each line/link awarded is for the First year. Lease Rent for subsequent years shall be increased @ 5% compounding per annum. Invoice shall be raised based on Lease Rent of One Pair of Dark Fiber per Km per Annum for each Link as per LOI, multiplied by the number of Pairs Leased out at the said rate and the total number of Kilometers of the length of the Line/Link. The applicable GST shall be applied over the Lease Rent. The billing of Co-location charges shall be done as specified in the RFP.

2.2 Payment Lease Rent & Co-location charges:

The period of Lease will be for 10 (Ten) Years. This period can be extended by up to 5 years upon mutual Agreement. The Bidder has to pay Lease Rent and Co-location charges upfront before beginning of each year. The first Year Invoice shall be issued along with LOI which is to be paid within 30 days from the date of Invoice. Lease Agreement will be executed only after receipt of first year Lease Rent and Co-location charges. The MPPTCL shall raise Invoice for Annual Lease Rent and Co-location charges for second year onwards, on or before the anniversary of Effective Date of each year. The due date of Payment is 30 days from the anniversary of Effective Date or the 30 days from the date of issue of Invoice whichever is later.

2.3 Late Payment Surcharge:

The Lessee is required to pay the Annual Lease rent and co-location charges before due date. There will be no penalty, if the payment is made within 30 days i.e. due date of payment. Payment beyond due date will attract Late Payment Surcharge @0.05% per day of delay in making payment beyond due date. The arrear amount continues to attract Late Payment Surcharge till the date of making payment. The payment of Lease Rent & Co-location charges shall be made through RTGS directly to the designated Account of MPPTCL.

2.4 Bullet Payment:

Where a Bidder fails to meet MAAT, it shall have to deposit the Net Present Value (NPV) of Five Years Lease Rental in one go before signing of Lease Agreement as applicable for other bidders. The payment of lease rent shall be made considering 5% p.a. escalation on year on year basis for five years. For calculation of NPV, discount rate of 5% p.a. shall be considered. However, payment of co-location charges shall be made upfront on yearly basis considering escalation @5% p.a. on compounding basis for second year as well as in each subsequent years.

Article 3 Effective Date:

The MPPTCL is required to handover the Fiber to the Lessee within 30 days from the date of signing of the Lease Agreement. The date of handing over of dark fiber will be considered as commissioning date and it will be termed as "Effective Date". In an event there is delay in handing over of Fiber to Lessee i.e. beyond 30 days from the date of execution of Lease Agreement and the reasons of delay are not attributable to the Lessee, the actual handing over/ commissioning date shall be termed as "Effective Date". In case there is delay on the part of Lessee in taking over of fiber, the Effective Date shall be 30 days from the date of issue of LOI. Signed copy of Hand Over Certificate shall be considered for the handing over of Fibers on MPPTCL network in such cases.

Article 4 Communications:

4.1 The Authority may, from time to time, designate one of its officials as the Authority's Representative. Unless otherwise notified, the Authority's Representative shall be:

ADDRESS: Chief Engineer (Procurement)
Madhya Pradesh Power Transmission Co. Ltd. Block No.
3, Shakti Bhawan, Rampur, Jabalpur – 482008, Madhya
Pradesh
PHONE No. 0761- 2702146 / 2702123 /2702156
FAX No: 0761-2665593
E-MAIL ADDRESS: mptransco@nic.in

4.2 The Lessee may designate one of its employees as Lessee's Representative. Unless otherwise notified, the Lessee's Representative shall be:

Tel: ----- Mobile:-----
Fax: -----
Email:-----

Article 5 Appendices:

5.1 The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Lease Agreement.

5.2 Reference in the Lease Agreement to any Appendix shall mean the Appendices attached hereto, and the Lease Agreement shall be read and construed accordingly.

5.3 Clauses not specifically mentioned in the attached appendices, the same shall be governed as per the available clauses of the tender document which shall be binding on both parties.

IN WITNESS WHEREOF the Authority and the Lessee have caused this Agreement to be duly executed by their duly authorized representatives on the day and year first above written.

SIGNED, SEALED AND DELIVERED

For and on behalf of

Authority
(Signature)
(Name)
(Designation)
(Address)
(Fax No.)

In the presence of:

1.

SIGNED, SEALED AND DELIVERED

For and on behalf of

Consultant:
(Signature)
(Name)
(Designation)
(Address)
(Fax No.)

2.

SCHEDULE-II

HANDING OVER TAKING OVER CERTIFICATE (HOTO)

The Successful Bidder‘ _____ ’

Sub: Selection of the Bidder for Leasing of Spare Dark Fibers of OPGW laid on MPPTCL’s Transmission Network.

We have taken handover of fiber link between _____ to _____ with _____ number of --- Fiber Pairs. The link details are as follows based on the attached OTDR traces. The link is now ready and available for use From Sub-Station----- To Sub Station----

OTDR Reading : LOSS (db)	From Station	To Station	Fiber Pair No.	Distance of Link

OTDR reports of fiber healthiness shall be made available to the Successful Bidder at the time signing of HOTO (handing over taking over) certificate. If the fiber condition is not as per standard specifications i.e., standard attenuation loss in 0.35 dB/Km, connector loss 0.5 dB/connector, joint/splicing loss 0.05 dB/splice for 1310 nm and standard attenuation loss in 0.21 dB/Km, connector loss 0.5 dB/connector, joint/splicing loss 0.05 dB/splice for 1550 nm, the same shall be repaired by MPPTCL within 2 (two) months from date of signing of agreement.

**Signature of Authorized Signatory
(On behalf of successful bidder)**

**Signature of Authorized Signatory
(On behalf of Authority)**

SCHEDULE-III

PERFORMANCE BANK GUARANTEE
(To be executed on Non-Judicial Stamp Paper of appropriate legal value with
Rs. 1/- revenue stamp)

Bank Guarantee No. _____ Date _____

Address of Guarantor bank:

.....
.....
.....

Address of beneficiary ("Tender Inviting Authority"):

Chief Engineer (Procurement)
M.P. Power Transmission Company Limited.
Block No.3, Shakti Bhawan, Rampur,
Jabalpur – 482008, Madhya Pradesh
e-mail: mptransco@nic.in, Fax No. +91-761-2665593

1. Vide Letter of Intent issued on (*insert number and date of the LOI*) by you (*MPPTCL*) to M/s (*the Lessee*), having its Registered Office at ("*the Lessee*") concerning (*Name & Scope of Contract*) against RFP No.

2. In accordance with the provisions of the Letter of Intent, the Lessee is required to submit performance security for an amount of Rs (amount in words `.....') (*insert amount of BG*).

3. By this letter we, the undersigned, (*insert name & address of the issuing bank*), a Bank (which expression shall include its successors, administrators, executors and assigns) organized under the laws of and having its Registered/Head Office at (*insert address of registered office of the bank*) waiving all objections and defenses under the aforementioned Letter of Intent, hereby irrevocably and independently guarantee to pay on your first Notice of Demand any amount up to a total of (in words:) (*insert amount of BG*).

4. We undertake to pay to the "M. P. POWER TRANSMISSION COMPANY LTD." any money so demanded notwithstanding any dispute or disputes raised by the "Lessee" or their subsidiary companies, in any suit or proceedings pending before any court or tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this Bond / Guarantee shall be a valid discharge of our liability for payment there under and the "Lessee" shall have no claim against us for making such payment.

5. Notwithstanding anything to the contrary, “Authority’s” (MPPTCL) decision as to whether the “Lessee” had made any default or defaults or failed to duly perform any of the terms & conditions of the aforementioned lease agreement and the amount to which “Authority” is entitled by reasons thereof, will be binding on us and we shall not be entitled to ask “Authority” to establish its claims under this guarantee but, we shall pay the sum demanded to the extent of guaranteed amount, without any objection or query and without cavil or argument. The decision of “Authority” (MPPTCL) that any sum has become payable shall be final and binding on us.

6. This guarantee shall not be affected by any change in the constitution of our Bank or of the contractor or for any other reason whatsoever.

7. In the event of any claim under this guarantee, payment shall be immediately effected to your Bank through RTGS in the following account:

NAME: M. P. POWER TRANSMISSION COMPANY LTD.
ACCOUNT NO. : 552901110050000
IFS CODE: UBIN0555291
BRANCH: UNION BANK OF INDIA, MADAN MAHAL, JABALPUR

In case of failure of RTGS, or change in above details, the payment shall be made through Demand Draft immediately. Any change in the Bank account shall be informed to us.

8. It is understood that you will return this Bank Guarantee to us on expiry or after payment of the total amount to be claimed hereunder.

9. Except for the Notice for Demand, no other document or other action shall be required notwithstanding any applicable Law or Regulation.

10. The Court of Jabalpur shall have exclusive Jurisdiction in all matters of all disputes in respect of above Bank Guarantee.

11. This guarantee shall expire no later than *DD/MM/YYYY* or upto extended period. By this date we must have received any claims for payment by demand letter sent to us through e-mail or through Fax or in person. For this purpose e-mail address & other details of Bank & Beneficiary are as under:

Bank: Name of Bank with complete postal address
(E-mail).....
(Fax No.).....
(any change in above details, should be informed to Beneficiary immediately)

Beneficiary:
e-mail: mptransco@nic.in
Fax No. 91-761-2665593
(any change in above details, should be informed to Bank immediately)

12. This guarantee is governed by the laws of INDIA.

.....

Place:

Guarantor Seal & Signature

Date:

Note:

1. For the purpose of executing the Bank Guarantee, the non-judicial stamp papers of appropriate value shall be purchased in the name of Bank who issues the 'Bank Guarantee'.
2. The Bank Guarantee shall be signed on all the pages by the Bank Authorities indicating their POA nos. and should invariably be witnessed.
3. The Bank Guarantee should be in accordance with the proforma as provided. However, in case the issuing bank insists for additional paragraph for limitation of liability, the following may be added at the end of the proforma of the Bank Guarantee [*i.e., end paragraph of the Bank Guarantee preceding the signature(s) of the issuing authority(ies) of the Bank Guarantee*]:

Quote

“Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed (*value in figures*) ` _____` [(*value in words*) ` _____`].
2. This Bank Guarantee shall be valid upto _____ (*validity date*) _____.
3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only & only if we receive a written claim or demand on or before _____ (*validity date*) _____.”

Unquote

SCHEDULE-IV

TECHNICAL SPECIFICATIONS OF OPGW

This section of the technical specification describes the functional and technical specifications of Fiber Optic cable and associated accessories.

1. Fiber Optic Cable

The functional & technical specifications of all OPGW cable, Fiber Optic Approach Cable, Joint Box and associated hardware & fittings for the requirements for G.652D Dual-window Single mode (DWSM) telecommunication grade optical fiber is specified. All optical fiber cable including Fiber itself and all associated installation hardware have a minimum guaranteed design lifespan of 25 years.

1.1 Optical Fiber Characteristics

The Fiber Optical Fibers have following characteristics:-

Physical Characteristic

Dual-Window Single mode (DWSM), G.652D optical Fibers are provided in the Fiber optic cables. DWSM optical Fibers meet the requirements defined in Table(a):

Attenuation

The attenuation coefficient for wave lengths between 1525 nm and 1575 nm shall not exceed the attenuation coefficient at 1550 nm by more than 0.05 dB/km. The attenuation coefficient between 1285nm and 1330nm shall not exceed the attenuation coefficient at 1310 nm by more than 0.05 dB/km. The attenuation of the Fiber are distributed uniformly throughout its length such that there are no point discontinuities in excess of 0.10dB. The Fiber attenuation characteristics specified in table (a) are “guaranteed” Fiber attenuation.

Table(a) DWSM Optical Fiber Characteristics	
Fiber Description:	Dual-Window Single-Mode
Mode Field Diameter@1310nm:	8.6 to 9.5 μ m(\pm 0.6 μ m)
Cladding Diameter:	125.0 μ m \pm 1 μ m
Mode field concentricity error	\leq 0.6 μ m
Cladding non-circularity	\leq 1%
Cable Cut-off Wavelength λ_{cc}	\leq 1260 nm
1550 nm loss performance	As per G.652 D
Proof Test Level	\geq 0.69 Gpa

Attenuation Coefficient:	@ 1310 nm ≤ 0.35 dB / km @ 1550 nm ≤ 0.21 dB / km
Chromatic Dispersion; Maximum: Zero Dispersion Wavelength: Zero Dispersion Slope:	18 ps/(nm x km) @ 1550 nm 3.5 ps/(nm x km) 1288-1339nm 5.3 ps/(nm x km) 1271-1360nm 1300 to 1324nm 0.092 ps/(nm ² xkm) maximum
Polarization mode dispersion coefficient	≤ 0.2 ps/km ^{1/2}
Temperature Dependence:	Induced attenuation ≤ 0.05 dB (-60 °C to +85 °C)
Bend Performance:	@ 1310 nm (75±2 mm dia Mandrel), 100 turns; Attenuation Rise ≤ 0.05 dB/km @ 1550 nm (75±2 mm dia Mandrel), 100 turns; Attenuation Rise ≤ 0.10 dB/km @ 1550 nm (32±0.5 mm dia Mandrel, 1 turn; Attenuation Rise ≤ 0.50 dB/km

2. Fiber Optic Cable Construction

The OPGW (Optical Ground Wire) cable installed on 400/220/132kV EHV transmission lines of MPPTCL. The list of EHV lines having OPGW links is enclosed at **Annexure-II**. The design of cable accounts for the varying operating and environmental conditions that the cable shall experience while in service.

2.1 Optical Fiber Cable Link Lengths

The optical Fiber link lengths are provided in Annexure-II.

For the purpose of tender, the Optical Fiber lengths are defined as transmission line route length from gantry at one termination station to the gantry in the other terminating station. The actual cable lengths may include additional 2% of route length due to account of various factor such as sag, service loop, splicing, working length and wastage etc.

Table (b)
Ground Wire Technical Details

S.No	Particulars	Ground Wire
1.	Material	Steel
2.	Size	--
3.	Nominal Aluminium area	--

4.	Stranding and wire diameter (no./mm)	7/3.66mm.
5.	Number of strands in each layer. Central core 1st layer 2nd layer 3rd layer 4th layer	1 of steel 6 of steel
6.	Sectional area of Alu.	--
7.	Total sectional area	--
8.	Approximate overall diameter	10.98 mm
9.	Overall diameter when wrapped with preformed Armour Rod	18.30 mm
10	Approximate weight	583Kg per Km
11	Calculated D.C. resistance at 20° C	2.5 Ohm/km
12	Approximate Breaking Load	6972 kg
13	Co-efficient of Linear Expansion	11.5 x 10-6per °C
14	Final Modulus of Elasticity	1.931X106 kg/cm ²

2.2 Optical Fiber Identification

Individual optical Fibers within a Fiber unit and Fiber units are identifiable in accordance with EIA/TIA598 or IEC60304 or Bell core GR-20 colour- coding scheme.

Colouring utilized for colour coding optical Fibers are integrated into the Fiber coating and are homogenous. The colour shall not bleed from one Fiber to another and shall not fade during Fiber preparation for termination or splicing.

The above cases are considered for the spans from 100m to 525m or higher span length in the steps of 20 m increase in spans. The full wind load shall be considered as the design wind load for all the specified transmission lines as per relevant IS802 version and the sag-tension chart considering the transmission lines.

2.3 Cable Materials

The materials used for optical Fiber cable construction, meets the following requirements:

2.3.1 Filling Materials

The interstices of the Fiber optic unit and cable are filled with a suitable compound to prohibit any moisture ingress or any water longitudinal migration within the Fiber optic unit or along the Fiber

optic cable. The water tightness of the cable meets or exceeds the test performance criteria as per IEC 60794-1-F-5 or EIA/TIA455-82B.

The filling compounds used are a non-toxic homogenous waterproofing compound that is free of dirt and foreign matter, non-hygroscopic, electrically nonconductive and non-nutritive to fungus. The compound is fully compatible with all cable components it may come in contact with and inhibit the generation of hydrogen within the cable.

The waterproofing filling materials does not affect Fiber coating, colour coding, or encapsulate commonly used in splice enclosures, are dermatologically safe, non-staining and easily removable with a non-toxic cleaning solvent.

2.3.2 Metallic Members

When the Fiber optic cable design incorporate metallic elements in its construction, all metallic elements are electrically continuous.

3. Optical Ground Wire (OPGW) Construction

OPGW cable construction complies with IEEE-1138, 2009. The cable provided meet both the construction and performance requirements such that the ground wire function, the optical Fiber integrity and optical transmission characteristics are suitable for the intended purpose.

OPGW Parameters to be considered for different line voltage and wind zones

1	Voltage Level	400 kV, 220kV,132kV
2	Stranding/Wire diameter	24 fibers
3	Total sectional area	80.2 mm ²
4	Overall diameter	12.5 mm
5	Approx. Weight	460 kg/km
6	Min. UTS	84 kN
7	Modulus of elasticity	13904 kg/mm ²
8	Co-efficient of linear expansion	14.3 x10 ⁻⁶ /deg C
9	Max. allowable temperature	53 deg C

3.1 Basic Construction

The cable construction conforms to the applicable requirements of IEC 61089 related to stranded conductors and OPGW Mechanical and Electrical Characteristics. In addition, the basic construction includes bare concentric-lay- stranded metallic wires with the outer layer having left hand lay. The wires may be of multiple layers with a combination of various metallic wires within each layer. The direction of lay for each successive layer is reversed. The finished wires contains no joints or splices unless otherwise specified and conforms to all applicable clauses of IEC61089 as they pertain to stranded conductors.

The wires are so stranded that when the complete OPGW is cut, the individual wires can be readily regrouped and then held in place.

3.2 Breaking Strength

The rated breaking strength of the completed OPGW are taken as 90 percent of the sum of the rated breaking strengths of the individual wires, calculated from their nominal diameter and the specified minimum tensile strength.

The rated breaking strength does not include the strength of the optical unit. The Fiber optic unit shall not be considered a load bearing tension member when determining the total rated breaking strength of the composite conductor.

3.3 Electrical and Mechanical Requirements

Table(c) provides OPGW Electrical and Mechanical Requirements for the minimum performance characteristics.

Table(c)
OPGW Electrical and Mechanical Requirements

(1)	Everyday Tension	$\leq 20\%$ of UTS of OPGW
(2)	D.C. Resistance at 20°C:	< 1.0 ohm/Km
(3)	Short Circuit Current	≥ 6.32 kA for 1.0 second (for 220 kV & above lines) ≥ 5.6 kA for 1.0 second (for 132 KV lines) Short Circuit shall be applicable as per the Voltage level of the lines

3.4 Operating conditions

Since OPGW are located at the top of the EHV transmission line support structure, it is subjected to Aeolian vibration, Galloping and Lightning strikes. It also carries ground fault currents. Therefore, its electrical and mechanical properties are same or similar as those required of conventional ground conductors. The OPGW designs are suited to the conditions and environment within India, and in particular suitable for the transmission line.

3.5 Installation Hardware

Installation Hardware includes all required fittings and hardware such as Tension assembly, Suspension assembly, Vibration dampers, Reinforcing rods, Earthing clamps, Download clamps, splice enclosure etc.

The OPGW hardware fittings and accessories follow the general requirements regarding design, materials, dimensions & tolerances, protection against corrosion and markings as specified in clause 4.0 of EN 61284: 1997 (IEC61284). The shear strength of all bolts is at least 1.5 times the maximum

installation torque.

The fittings and accessories described herein are indicative of installation hardware typically used for OPGW installations and shall not necessarily be limited to the following:

(a) Suspension Assemblies: Preformed armour grip suspension clamps and aluminium alloy armour rods/reinforcing rods are used. The suspension clamps slippage shall occur between 12kN and 17kN as measured. The design of the assembly is such that the directions of run of the OPGW are the same as that of the conductor.

(b) Dead End Clamp Assemblies: All dead end clamp assemblies are preformed armoured grip type and include all necessary hardware for attaching the assembly to the tower strain plates. Dead end clamps allow the OPGW to pass through continuously without cable cutting. The slip strength are rated not less than 95% of the Ultimate tensile strength of the OPGW.

(c) Clamp Assembly Earthing Wire: Earthing wire consisting of a 1500 mm length of aluminium or aluminium alloy conductor equivalent in size to the OPGW are used to earth suspension and dead end clamp assemblies to the tower structure. The earthing wire is permanently fitted with lugs at each end. The lugs are attached to the clamp assembly at one end and the tower structure at the other.

(d) Structure Attachment Clamp Assemblies: Clamp assemblies used to attach the OPGW to the structures, have two parallel grooves for the OPGW, one on either side of the connecting bolt. The clamps are such that clamping characteristics do not alter adversely when only one OPGW is installed. The tower attachment plates locate the OPGW on the inside of the tower and attached directly to the tower legs/cross-members without drilling or any other structural modifications.

(e) Tension Fitting for Suspension Tower: The OPGW cable sections are terminated & spliced on suspension towers as per requirement. For this, a special fitting namely Yoke plate alongwith tension fittings are provided for termination/jointing of OPGW on Suspension tower.

(f) Vibration Dampers: Vibration dampers type 4R Stockbridge or equivalent, having four (4) different frequencies spread within the Aeolian frequency bandwidth and are used for suspension and tension points in each span. The clamps of the vibration damper are made of high strength aluminum alloy of type LM-6. It is capable of supporting the damper and prevents damage or chaffing of the conductor during erection or continued operation. The damper mass is made of hot dip galvanized mild steel/cast iron or a permanent mold cast zinc alloy.

3.6 Fiber Optic Splice Enclosures (Joint Box)

All splices are encased in Fiber Optic Splice Enclosures. Suitable splice enclosures are provided to encase the optical cable splices in protective, moisture and dust free environment. Splice enclosures comply with ingress protection class IP 66 or better. The splice enclosures are designed for the storage and protection of required number of optical Fiber splices and equipped with sufficient number of splice trays for splicing all Fibers in the cable. No more than 12 Fibers are terminated in a single splice tray. They are filled with suitable encapsulate that is easily removable should re-entry be required into the enclosures.

Splice enclosures are suitable for outdoor use with each of the cable types. Splice enclosures are appropriate for mounting on transmission line towers above anti-climb guard levels at about 10 metres from top of the tower and shall accommodate pass-through splicing.

3.6.1 Optical Fiber Splices

Splicing of the optical Fiber cabling is minimized wherever possible. There are no mid-span splices allowed. All required splices are planned to occur on tower structures. All optical Fiber splicing comply with the following:

- (a) All Fiber splices are accomplished through fusion splicing.
- (b) Each Fiber splice is fitted with a splice protection sheath fitted over the final splice.
- (c) All splices and bare Fiber are neatly installed in covered splice trays.
- (d) For each link, bi-directional attenuation of single mode fusion splices, shall not average more than 0.05 dB and no single splice loss shall exceed 0.1 dB when measured at 1550nm.
- (e) For splicing, Fiber optic cable service loops of adequate length are provided so that all splices occurring at tower structures can be performed at ground level.

3.7 Fiber Optic Approach Cables

For purposes of this specification, a Fiber optic approach cable is defined as the Armoured underground Fiber optic cable required to connect Overhead Fiber Optic Cable (OPGW) between the final in line splice enclosure on the gantry / tower forming the termination of the Fiber cable on the power line and the Fiber Optic Distribution Panel (FODP) installed within the building.

3.7.1 Basic Construction

The cable are suitable for direct burial, laying in trenches & PVC/Hume ducts, laying under false flooring and on indoor or outdoor cable raceways.

3.7.2 Jacket Construction & Material

The Approach Cable is a UV resistant, rodent proof, armoured cable with metallic type of armouring. The outer cable jacket for approach cable consists of carbon black polyethylene resin to prevent damage from exposure to ultra-violet light, weathering and high levels of pollution. The jacket conforms to ASTM D1248 for density.

3.7.3 Optical, Electrical and Mechanical Requirements

Approach cable contains Fibers with identical optical/physical characteristics as those in the OPGW cables. The cable core comprises of tensile strength member(s), Fiber support/bedding structure, core wrap/bedding, and an overall impervious jacket.

4. Optical Fiber Termination and Splicing

Optical Fiber terminations are installed in Fiber Optic Distribution Panels (FODP) designed to provide protection for Fiber splicing of pre-connectorised pigtails and to accommodate connectorised termination and coupling of the Fiber cables.

4.1 Fiber Optic Distribution Panel

At each location requiring the termination of at least one Fiber within a cable, all Fibers within that cable are connectorised and terminated in Fiber Optic Distribution Panels in a manner consistent with the following:

All Fiber optic terminations are housed using FODPs provisioned with splice organizers and splice trays. All Fibers within a cable are fusion spliced to pre connectorised pigtails and fitted to the "Back-side" of the provided Fiber optic couplings.

FODPs are suitable for use with each of the cable types. FODPs accommodate pass-through splicing and Fiber terminations.

FODPs for indoor use are supplied in suitable cabinets/ racks with locking arrangement

All FODPs are of corrosion resistant, robust construction and allow both top or bottom entry for access to the splice trays. Ground lugs are provided on all FODPs and ensured that all FODPs are properly grounded. The FODP meet or exceed ingress protection class IP55 specifications.

Flexible protection is provided to the patch cord bunches going out from FODP to other equipment.

4.2 Optical Fiber Connectors

Optical Fibers are connectorised with FC-PC type connectors preferably. Alternatively connector with matching patch cord is acceptable. Fiber optic couplings supplied with FODPs are appropriate for the Fiber connectors to be supported. There are no adapters.

4.3 Service Loops

Cable and Fiber service loops have been used as slack (extra) cable and Fiber provided for facilitating the installation, maintenance and repair of the optical Fiber cable plant. Following service loops have been provided:

- (a) Outdoor Cable Service Loops
- (b) Indoor Cable Service Loops
- (c) Fiber Units Service Loops
- (d) Pigtail Service Loops
- (e) Fiber Service Loops

4.4 Cable Raceways

To the extent possible, existing cable raceways are utilised. The cable raceways conform to the following:

(a) All cable raceways are sized to support full loading requirements plus at least a 200% safety loading factor.

(b) Indoor cable raceways are fabricated from construction grade aluminium, galvanized iron or anodized sheet metal or any other suitable material. Suitable anti- corrosion measures are provided. Steel fabricated raceways are finished inside and outside, treated to resist rust and to form a metal-to-paint bond.

ANNEXURE-I

OPGW MAP OF MPPTCL

ANNEXURE-I

OPGW BASED RELIABLE COMMUNICATION SCHEME FOR SUBSTATION AT 132KV & ABOVE OF MADHYA PRADESH

- L** CENTRAL SECTOR PCCIL LINES HAVING OPGW
E MPPCTCL LINES HAVING OPGW (LENGTH 558 Km)
G MPPCTCL LINES HAVING OPGW UNDER MCP-I (LENGTH 377 Km)
E MPPCTCL LINES HAVING OPGW UNDER MCP-II (LENGTH 377 Km)
N MPPCTCL ONGOING OPGW WORK UNDER ABB / KFW / JICA
D MPPCTCL P.P. LINES WHERE OPGW LAYING IS NOT POSSIBLE
D MPPCTCL PROPOSED OPGW WORK UNDER DOMESTIC FUNDING
D OPGW WORKS TO BE TAKEN UP BY NS-211
D WORKS PROPOSED UNDER P.D. DS

RAJASTHAN

UTTAR PRADESH

GUJRAT

MAHARASHTRA

CHHATTISGARH

DESCRIPTION	LEGEND	
	EXISTING	PROPOSED
765KV TRANSMISSION LINE [PCCIL]		
400KV TRANSMISSION LINE [PCCIL]		
400KV TRANSMISSION LINE [MPPCTCL]		
220KV TRANSMISSION LINE		
132KV TRANSMISSION LINE		
765KV SUBSTATION [PCCIL]		
400KV SUBSTATION [PCCIL]		
220KV SUBSTATION		
132KV SUBSTATION		
THERMAL POWER STATION		
HYDEL POWER STATION		

- 1. ADDITIONAL NOT REQUIRED AT THIS STATION
- 2. ADDITIONAL NOT REQUIRED AT THIS STATION
- 3. UTILISED AT OTHER WORKS (INDIA AND / OR / JICA)
- 4. ADDITIONAL TRANSMISSION LINE REQUIRED FOR
- 5. ADDITIONAL TRANSMISSION LINE REQUIRED FOR
- 6. ADDITIONAL TRANSMISSION LINE NOT REQUIRED FOR
- 7. RFP WITH MPPCTCL



ANNEXURE-II

LIST OF MPPTCL OPGW FIBER LINKS

Annexure-II

Details of OPGW Network covered under MP Power Transnet Project

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A				LILO Point				POINT - B			
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates				
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude			
1	400 kv Bhopal -Itarsi	105.00	24	8	400 kv Bhopal	23°20'50.41"	77°29'00.97"	-	-	Itarsi	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
2	400 kv Bhopal - Bina DC	144.00	24	8	400 kv Bhopal	23°20'50.41"	77°29'00.97"	-	-	Bina 400	24°12'35.42"	78°15'39.43"	24°12'35.42"	78°15'39.43"		
3	220 kv Bhopal - Ashta	98.00	24	8	220 kv Bhopal	23°15'14.69"	77°26'17.11"	-	-	Ashta 220KV	23°04'26.80"	76°42'05.23"	23°04'26.80"	76°42'05.23"		
4	220 kv Bhopal - Mandideep	37.79	24	8	220 kv Bhopal	23°15'14.69"	77°26'17.11"	-	-	Mandideep 220	23°04'32.40"	77°33'24.29"	23°04'32.40"	77°33'24.29"		
5	220 kv Bhopal - Bairagarh	17.03	24	8	220 kv Bhopal	23°15'14.69"	77°26'17.11"	-	-	BAIRAGARH 220	23°19'11.37"	77°19'52.60"	23°19'11.37"	77°19'52.60"		
6	132KV Multai-pandhurna220	37.75	24	8	132KV Multai	21°46'53.14"	78°16'48.55"	-	-	pandhurna 220	21°35'18.74"	78°32'40.01"	21°35'18.74"	78°32'40.01"		
7	132kv Sarangpur-Shujalpur220	29.57	24	8	132kv Sarangpur	23°35'18.96"	76°30'04.57"	-	-	Shujalpur 220	23°25'27.66"	76°42'43.23"	23°25'27.66"	76°42'43.23"		
8	Shajapur220-Momanbadodiya	25.17	24	8	Shajapur220	23°24'29.82"	76°15'32.83"	-	-	Moman badodiya	23°35'46.28"	76°21'01.53"	23°35'46.28"	76°21'01.53"		
9	Momanbadodiya-Sarangpur	16.21	24	8	Momanbadodiya	23°35'46.28"	76°21'01.53"	-	-	Sarangpur 132	23°35'18.96"	76°30'04.57"	23°35'18.96"	76°30'04.57"		
10	LILo portion of Betul220 - Multai 132 for Amli 132	20.90	48	8	BETUL 220	21°49'31.69"	77°52'56.69"	-	-	Multai132	21°46'53.14"	78°16'48.55"	21°56'25.31"	78°09'17.90"		
11	Bhopal 220 - Mandideep 220 - Hoshangabad220-Itarsi 220	97.00	24	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi 220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
12	Lilo of Bhopal220 - Itarsi220 line for Tamot132	1.69	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
13	Lilo of Bhopal220 - Itarsi220 line for MACT132	25.43	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
14	Lilo of Bhopal220 - Itarsi line for Amrawalkhurd132	5.35	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
15	Lilo of Bhopal 220 -Itarsi 220 line for (OLD) Mandideep 132	5.84	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
16	Lilo of Bhopal 220 -Itarsi 220 line for Bagroda 132	0.08	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Itarsi220	22°34'08.67"	77°47'52.15"	22°34'08.67"	77°47'52.15"		
17	Handiya 220 - Saipura TPS 220 line	156.52	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	Saipura 220	-	-	-	-		
18	Ashta132 - Sonkatch	27.49	24	8	Ashta 132	23°01'56.06"	76°42'39.35"	-	-	Sonkatch	22°58'40.67"	76°19'50.10"	22°58'40.67"	76°19'50.10"		
19	LILo of one circuits of Bhopal-Hosangabad 220kv D/C Line at Adampur 220KV S/S (2x7)	7.00	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	-	-	Hosangabad 220kv	22°43'59.17"	77°43'20.33"	23°16'45.37"	77°28'48.89"		
20	Itarsi220 - Pipariya220	61.46	24	8	Itarsi 220	22°34'08.67"	77°47'52.15"	-	-	Pipariya 220	22°43'39.33"	78°20'01.73"	22°43'39.33"	78°20'01.73"		
21	Pipariya 220 - Bankhedi - Gadarwara 132	57.46	24	8	Pipariya 220	22°43'39.33"	78°20'01.73"	-	-	Bankhedi	22°47'01.79"	78°31'16.87"	22°56'8.17"	78°47'40.46"		
22	Armyakalan - Ashta220	19.64	24	8	Armyakalan	23°13'10.55"	76°44'54.75"	-	-	Ashta 220	23°04'26.80"	76°42'05.23"	23°04'26.80"	76°42'05.23"		
23	Shajapur - Makshi	20.12	24	8	Shajapur	23°24'29.82"	76°15'32.83"	-	-	Makshi	23°14'23.77"	76°08'57.47"	23°14'23.77"	76°08'57.47"		
24	Shajapur - Berchha	20.32	24	8	Shajapur	23°24'29.82"	76°15'32.83"	-	-	Berchha 132	23°17'46.94"	76°21'16.13"	23°17'46.94"	76°21'16.13"		
25	Malanpur220 - Mehgaon220	33.84	24	8	Malanpur220	26°22'49.98"	78°18'06.88"	-	-	Mehgaon 220	26°29'26.66"	78°35'23.92"	26°29'26.66"	78°35'23.92"		
26	Gwalior-II 220 - Haslmanpur 132	23.28	24	8	Gwalior-II 220	22°07'34.29"	78°12'08.51"	-	-	Haslmanpur 132	26°08'46.67"	78°25'30.93"	26°08'46.67"	78°25'30.93"		
27	Gwalior 765(PG) - Gwalior-II 220 D/C Line	2.51	24	8	Gwalior 765(PGCL)	-	-	-	-	Gwalior-II 220	22°07'34.29"	78°12'08.51"	22°07'34.29"	78°12'08.51"		
28	Damoh400(PGCL) - Sagar 220 (deleted & upgraded in MPPTCL priority 4th letter)	70.59	24	8	Damoh400 (PGCL)	-	-	-	-	Sagar 220	23°49'50.52"	76°50'32.86"	23°49'50.52"	76°50'32.86"		
29	Sabalgarh220 - Sheopurkalan (OPGW at 220KV)	108.35	24	8	Sabalgarh 220	26°15'35.98"	77°26'12.92"	-	-	Sheopur kalan 220	25°44'50.53"	76°38'38.85"	25°44'50.53"	76°38'38.85"		
30	Bina 220 - Raighat HPS -Chanderi 132 Line	80.05	24	8	Bina 220	24°10'32.12"	78°12'41.85"	-	-	Chanderi 132	24°43'46.36"	78°08'08.17"	24°43'46.36"	78°08'08.17"		
31	Malanpur 220 - Dimni 132-Ambah132	46.60	24	8	Malanpur 220	26°22'49.98"	78°18'06.88"	-	-	Ambah 132	26°41'57.42"	78°12'54.40"	26°41'57.42"	78°12'54.40"		
32	Bina400(MP) - Ashoknagar 220 - Guna220	130.10	24	8	Bina400(MP) - Guna220	24°12'35.42"	77°44'39.87"	-	-	Guna 220	24°37'43.14"	77°16'36.27"	24°37'43.14"	77°16'36.27"		
33	Maqsudangarh132 - Lateri 132- Sironj132	72.88	24	8	Maqsudangarh 132	24°09'31.96"	77°12'51.76"	-	-	Lateri 132	24°02'29.23"	77°24'57.85"	24°05'13.99"	77°42'46.11"		

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
34	Ashoknagar220 - Kothiya 132kv	40.00	24	8	Ashoknagar 220	24°33'42.95"	77°44'37.47"	-	-	Kothiya 132	24°39'07.75"	77°31'37.30"	
35	common portion of 132kv Ashoknagar 220-kothia line with 132kv Ashoknagar-Esaqarh	1.28	48	8	132kv Ashoknagar	24°33'42.95"	77°44'37.47"	Kothia	25°32'52.80"	85°16'34.85"	ISHAGARH 132	24°49'35.18"	77°51'59.12"
36	132 KV Biora - Rajgarh220(Biora GSS to LILO point T No.25)	7.02	48	8	132 KV Biora	23°54'21.59"	76°54'22.10"	Rajgarh220	23°59'10.90"	76°43'38.60"	Rajgarh 220	23°59'10.90"	76°43'38.60"
37	132 KV Biora - Rajgarh220 (LILO point T No.25 to Rajgarh GSS)	1.41	48	8	132 KV Biora	23°54'21.59"	76°54'22.10"	Rajgarh220	23°59'10.90"	76°43'38.60"	Rajgarh GSS	22°37'52.01"	74°57'56.51"
38	LILO portion of Biora - Rajgarh220 for Magsudangarh	47.74	24	8	Biora	23°54'21.59"	76°54'22.10"	Rajgarh220	23°59'10.90"	76°43'38.60"	MAKSOODANGA RH 132	24°09'31.96"	77°12'51.76"
39	Biora - Rajgarh220	21.05	24	8	Biora - Rajga	23°54'21.59"	76°54'22.10"	-	-	Rajgarh 220	23°59'10.90"	76°43'38.60"	
40	Khichipur-Rajgarh(B)220	18.96	24	8	Khichipur-Ra	24°01'05.69"	76°34'33.55"	-	-	jagarrh(B)220	23°59'10.90"	76°43'38.60"	
41	Rajgarh(Biora)220 - Shujalpur400(PGCIL)	64.64	24	8	Rajgarh(Biora)220	23°59'10.90"	76°43'38.60"	-	-	Shujalpur400	23°25'27.66"	76°42'43.23"	
42	Badod 220 -Ujjain220	79.05	24	8	Badod 220	23°49'17.15"	75°48'03.20"	-	-	Ujjain 220	23°11'34.78"	75°50'35.45"	
43	Common portion Badod 220 - Ujjain220	2.86	48	8	Badod 220	23°49'17.15"	75°48'03.20"	-	-	Ujjain 220	23°11'34.78"	75°50'35.45"	
44	LILO portion of Badod 220 -Ujjain220 Line for Agart132	15.84	48	8	Badod 220	23°49'17.15"	75°48'03.20"	Ujjain220	23°11'34.78"	75°50'35.45"	Agar 132	23°42'29.56"	75°59'49"
45	LILO portion of Badod 220 -Ujjain220 Line for Ghosia132	0.41	48	8	Badod 220	23°49'17.15"	75°48'03.20"	Ujjain220	23°11'34.78"	75°50'35.45"	Ghonsia 132	23°23'18.36"	75°51'26.38"
46	132kv Alet-Tal DCSS line	19.50	24	8	132KV A lot	23°45'30.24"	75°32'16.13"	-	-	Tal 132	23°45'21.97"	75°21'51.42"	
47	Daloda220-Siamau	34.32	24	8	Daloda 220	23°56'21.24"	75°05'48.05"	-	-	Siamau 132	24°01'52.98"	75°20'47.68"	
48	Neemuch 220-Ratangarh	43.15	24	8	Neemuch 220	24°28'30.52"	74°53'00.87"	-	-	RATANGARH 132	24°47'29.70"	75°06'08.56"	
49	Nagda -Rajgarh (PG) 400kv D/C Nagda 400-Badnawar 400(CKT-II) Part I	104.00	24	8	Nagda 400	23°25'55.95"	75°26'58.21"	-	-	Badnawar 400	23°02'08.54"	75°12'38.15"	
50	Nagda 400 - Nagda 220 I/C line (Survey Hold Due to existing OPGW)	1.63	24	8	Nagda 400	23°25'55.95"	75°26'58.21"	-	-	Nagda 220	23°26'43.46"	75°26'35.68"	
51	Khachrod-Nagda 220 (220 Kv GSS Nagda to 54/9 Lilo)	7.55	24	8	Khachrod 132	23°26'06.17"	75°20'05.91"	-	-	NAGDA 220	23°26'43.46"	75°26'35.68"	
52	Common portion of Khachrod-Nagda 220 & Khachrod-Bhesola (54/9 Lilo Khachrod)	1.68	48	8	Khachrod 132	23°26'06.17"	75°20'05.91"	Nagda Lin	23°26'43.46"	75°26'35.68"	BHESOLA 132	23°28'53.24	75°14'51.60"
53	220kv Birsinghpur TPS - Amarkantak	23.03	24	8	Mahidpur 132	23°28'21.88"	75°39'37.74"	-	-	NAAGDA 220	23°26'43.46"	75°26'35.68"	
54	220kv Birsinghpur TPS - Amarkantak TPS	71.00	24	8	Birsinghpur TPS	23°21'00.78"	81°02'43.33"	-	-	Amarkantak TPS	-	-	
55	220kv Amarkantak TPS - Rewa 220kv	193.00	24	8	Amarkantak TPS	-	-	-	-	REWA 220	24°29'12.08"	81°17'50.65"	
56	220kv D/C Amarkantak TPS - Anoopur 220	10.87	24	8	Amarkantak TPS	-	-	-	-	ANOOPPUR 220	23°10'21.24"	81°39'51.61"	
57	132kv Anoopur 220 - Morwa 132	165.08	24	8	Anoopur 220	23°10'21.24"	81°39'51.61"	-	-	Monwa 132	24°12'12.45"	82°39'43.98"	
58	Additional quantity of Anoopur 220 - Morwa 132	0.22	24	8	Anoopur 220	23°10'21.24"	81°39'51.61"	-	-	Monwa 132	24°12'12.45"	82°39'43.98"	
59	LILO portion of Anoopur 220 - Morwa132 Line for Waidhan	9.86	48	8	Amarkantak 220	23°10'21.24"	81°39'51.61"	Morwa132	24°12'12.45"	82°39'43.98"	Waidhan 132	24°06'36.30"	82°37'55.89"
60	LILO portion of Anoopur 220 - Morwa132 Line for Rajmilan	0.79	48	8	Amarkantak 220	23°10'21.24"	81°39'51.61"	Morwa132	24°12'12.45"	82°39'43.98"	RAJNILAN 132	23°58'04.10"	82°25'04.97"
61	LILO portion of Anoopur 220 - Morwa132 Line for Dongrital132	0.14	48	8	Amarkantak 220	23°10'21.24"	81°39'51.61"	Morwa132	24°12'12.45"	82°39'43.98"	DONGRITAL 132	23°56'27.79"	82°18'33.65"
62	220kv Rewa 220 - Bansagar Tons HPS	48.40	24	8	Rewa 220	24°29'12.08"	81°17'50.65"	-	-	Bansagar	-	-	
63	220kv Bansagar Tons HPS - Satna 220	79.00	24	8	Bansagar PH-I	-	-	-	-	Satna 220	24°34'42.22"	80°43'25.74"	
64	400kv Seoni-Kimapur	115.00	24	8	Seoni 765	-	-	-	-	BALAGHAT 132	21°48'18.41"	80°10'38.07"	
65	Saima220-Panna	63.47	24	8	Saima 220	24°34'42.22"	80°43'25.74"	-	-	PANNA 132	24°42'02.66"	80°10'42.39"	
66	ISP HPS-Satpura TPS	189.31	24	8	ISP HPS	-	-	-	-	Satpura TPS	-	-	

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
67	LILO portion of Bansagar (Tons-I)HEP - Rewa 220 Line for Sirmour 220	4.90	48	8	Bansagar (Tons-I)HEP	-	-	Rewa 220	24°29'12.08"	81°17'50.65"	SIRMOUR 220	24°46'13.42"	81°23'21.54"
68	Bansagar PH-II - Rewa 220	0.10	24	8	Bansagar PH-II	-	-	Rewa 220	-	-	Rewa 220	24°29'12.08"	81°17'50.65"
69	Bansagar PH-III - Rewa 220	62.50	24	8	Bansagar PH-III	-	-	Rewa 220	-	-	Rewa 220	24°29'12.08"	81°17'50.65"
70	LILO portion of Bansagar PH-III - Rewa 220 line for Beohari 132	17.53	48	8	Bansagar PH-III	-	-	Rewa 220	24°29'12.08"	81°17'50.65"	BIOHARI 132	24°03'35.59"	81°21'44.55"
71	LILO portion of Bansagar PH-III - Rewa 220 line for Rampur Naiken 132	0.29	48	8	Bansagar PH-III	-	-	Rewa 220	24°29'12.08"	81°17'50.65"	Rampur Naiken 132	24°18'56.41"	81°25'53.62"
72	LILO portion of Bansagar (PH-II) - Bansagar (PH-III) line for Bansagar (PH-IV)	12.81	48	8	Bansagar PH-II	-	-	Bansagar	-	-	Bansagar	-	-
73	Birsinghpur Pali220 - Birsinghpur HEP Line for Maihar220	3.29	24	8	Birsinghpur Pali 220	-	-	Kaini400	23°52'34.24"	80°21'15.15"	BIRHINGHPUR 220	23°21'00.78"	81°02'43.33"
74	LILO portion of Sama220 - Kaini400 Line for Maihar220	0.66	48	8	Sama 220	24°34'42.22"	80°43'25.74"	Sama 132	23°52'34.24"	80°21'15.15"	MAIHAR 220 (132)	24°14'22.88"	80°44'49.50"
75	Birsinghpur TPS - Birsinghpur 220	12.45	24	8	Birsinghpur TPS	24°34'42.22"	80°43'25.74"	Sama 132	-	-	BIRHINGHPUR 220	23°21'00.78"	81°02'43.33"
76	D/C line Ckt. - III & IV 220KV Sama-220KV Kaini	109.00	24	8	Sama 220	24°34'42.22"	80°43'25.74"	Sama 132	-	-	KATNI 400 (220)	23°52'34.24"	80°21'15.15"
77	LILO portion of Kaini 220 - Sama 132 line for Maihar. 132	2.50	48	8	Kaini 220	23°52'34.24"	80°21'15.15"	Sama 132	24°34'19.52"	80°48'24.31"	MAIHAR 220 (132)	24°14'22.88"	80°44'49.50"
78	220KV Kaini-220KV Jabalpur	111.00	24	8	Kaini 220	23°52'34.24"	80°21'15.15"	Jabalpur 220	-	-	JABALPUR 220(400)	23°07'42.80"	79°53'26.50
79	Anuppur 220 - Kotma	34.38	24	8	Anuppur 220	23°10'21.24"	81°39'51.61"	-	-	-	KOTMA 132	23°13'12.28"	81°57'53.27"
80	Birsinghpur220 - Umanya	35.30	24	8	Birsinghpur 220	23°21'00.78"	81°02'43.33"	-	-	-	UMARIYA 132	23°32'06.05"	80°50'23.84"
81	220KV Jabalpur-400KV Jabalpur	12.00	24	8	Jabalpur 220	23°07'42.80"	79°53'26.50	-	-	-	JABALPUR 220(400)	23°07'42.80"	79°53'26.50
82	SLDC Jabalpur-220KV Jabalpur	2.00	24	8	SLDC Jabalpur	-	-	-	-	-	JABALPUR 220(400)	23°07'42.80"	79°53'26.50
83	Bargi - Jabalpur	23.90	24	8	Bargi	23°01'59.17"	79°48'05.92"	-	-	-	JABALPUR 220(400)	23°07'42.80"	79°53'26.50
84	LILO portion of Jabalpur220 - Kaini132 Line for Madhotal132	0.02	48	8	Jabalpur 220	23°07'42.80"	79°53'26.50	Kaini 132	23°48'49.60"	80°22'32.50"	Madhotal 132	23°13'09.52"	79°53'59.62"
85	LILO portion of Jabalpur220 - Kaini132 Line for Panagar220	7.19	48	8	Jabalpur 220	23°07'42.80"	79°53'26.50	Kaini 132	23°48'49.60"	80°22'32.50"	PANAGAR 220	23°15'39.19"	79°54'32.48"
86	LILO portion of Jabalpur220 - Kaini132 Line for Mansakra132	6.96	48	8	Jabalpur 220	23°07'42.80"	79°53'26.50	Kaini 132	23°48'49.60"	80°22'32.50"	Mansakra 132	23°29'15.64"	80°07'03.75"
87	Indore 400 - ISP HPS	81.30	24	8	Indore 400	22°37'24.45"	75°53'20.40"	-	-	-	ISP HPS	-	-
88	Chhegaon 400 - Julwaniya 400	114.00	24	8	Chhegaon 400	21°55'44.30"	76°10'40.01"	-	-	-	JULWANIYA 400	21°54'35.37"	75°15'08.93"
89	Chhegaon220 - Khandwa132	31.11	24	8	Chhegaon 220	21°55'44.30"	76°10'40.01"	-	-	-	Khandwa 132	21°50'04.87"	76°22'26.32"
90	Manawar-Nimrani220	43.42	24	8	Manawar 132	22°14'55.54"	75°05'22.01"	-	-	-	Nimrani 220	22°07'08.36"	75°27'12.35"
91	Julwaniya400 - Nimrani220	35.95	24	8	Julwaniya 400	21°54'35.37"	75°15'08.93"	-	-	-	Nimrani 220	22°07'08.36"	75°27'12.35"
92	Kukshi-Manawar	37.04	24	8	Kukshi 220	22°11'01.03"	74°45'32.14"	-	-	-	MANAWAR 132	22°14'55.54"	75°05'22.01"
93	Singaji TPS - Pithampur 400	136.00	24	8	Singaji TPS	-	-	-	-	-	Pithampur 400	22°33'15.19"	75°32'43.45"
94	LILO of one circuits of Ashia 400kv - Dewas 220kv D/C Line at Chapda 220KV S/s (2XDJC) (1X2x33)	33.00	48	8	Ashia 400	23°04'26.80"	76°42'05.23"	Dewas 220kv	22°58'06.42"	76°04'54.95"	CHAPDA 220	22°42'40.96"	76°18'21.85"
95	Dewas220 to Shankargam 132KV DCDS line	5.60	24	8	Dewas 220	22°58'06.42"	76°04'54.95"	-	-	-	SHANKARGARH 132	22°56'00.81"	76°05'11.82"
96	Chapda220 - Sivni132	20.63	24	8	Chapda 220	22°42'40.96"	76°18'21.85"	-	-	-	Sivni 132	22°39'52.27"	76°08'19.15"
97	Chapda - Dewas 220	44.51	24	8	Chapda 220	22°42'40.96"	76°18'21.85"	-	-	-	Dewas 220	22°58'06.42"	76°04'54.95"
98	LILO portion of Indore400-Dewas220 Line for Indore East220	0.20	48	8	Indore 400	22°37'24.45"	75°53'20.40"	Dewas 220KV	22°58'06.42"	76°04'54.95"	INDORE EAST (BICHOLI M) 220	22°41'44.53"	75°55'41.77"
99	Indore 400 - Ashia 400(via Dewas 220)	115.00	24	8	Indore 400	22°37'24.45"	75°53'20.40"	Ashia 400KV	23°04'27.77"	76°42'10.06"	Dewas 220	22°58'06.42"	76°04'54.95"

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
100	L.I.L.O of one ckt. of Indore 400 to Indore-II (Jaipur) 220KV line at Mangliya 220KV S/S. (2x1)	1.00	48	8	Indore 400	22°37'24.45"	75°53'20.40"	Indore-II (Jaipur)	22°51'59.34"	75°51'44.17"	MANGLIYA 220	22°48'05.30"	75°54'31.31"
101	Depalpur - Indore-II (Jaipur) 220	32.15	24	8	Depalpur 220	22°50'29.44"	75°33'15.66"	-	-	-	INDORE-II (JETPURA) 220	22°51'59.94"	75°51'44.17"
102	2nd circuit of 132KV Badnagar - Gautampura line	24.00	24	8	Badnagar 220	23°04'00.79"	75°21'52.94"	-	-	-	GAUTAMPURA 132	22°59'13.67"	75°32'10.07"
103	Gautampura-Depalpur DCSS line	19.00	24	8	Gautampura 132	22°59'13.67"	75°32'10.07"	-	-	-	DEPALPUR 220	22°50'29.44"	75°33'15.69"
104	Pithampur 400 - Pithampur 220 D/C line (Not required, written confirmation not received)	22.96	24	8	Pithampur 400	22°33'15.19"	75°32'43.45"	-	-	-	PITHAMPUR 220 (Sec-III)	22°36'55.11"	75°35'54.94"
105	Ujjain 220 - Bherugadh 132 - Ratadiya (Mullapura)	11.32	24	8	Ujjain 220	23°11'34.78"	75°50'35.45"	Bherugadh 132	22°57'41.72"	76°03'36.83"	MULLAPURA	23°11'51.63"	75°42'21.81"
106	Ratadiya - SAILANA	23.01	24	8	Ratadiya 220	23°19'45.24"	75°04'01.99"	-	-	-	RATADITA 132	23°27'45.84"	74°56'26.24"
107	Juwaniya 400 - Juwaniya 220	8.09	24	8	Juwaniya 400	21°54'35.37"	75°15'08.93"	-	-	-	SAILANA 132	21°51'43.08"	75°12'35.07"
108	Chhoti Khargone-Dhamnod (Excluding common portion with Dhamnod-Nimirani line)	28.85	24	8	Chhoti Khargone	22°11'54.71"	75°41'21.93"	Dhamnod	22°12'51.15"	75°28'20.49"	NIMRANI 220	22°07'08.36"	75°27'12.35"
109	Dhamnod-Nimirani 220 (Excluding common portion with C'Khargone-Dhamnod line)	22.00	24	8	Dhamnod 132	22°17'25.48"	75°29'50.01"	Nimirani	22°07'13.41"	75°27'17.52"	DHAMNOD 132	22°17'25.48"	75°29'50.01"
110	Common Portion of 132KV C'Khargone - Dhamnod & Dhamnod - Nimirani line	10.00	48	8	Chhoti Khargone	22°11'54.71"	75°41'21.93"	Dhamnod	22°12'51.15"	75°28'20.49"	NIMRANI 220	22°07'08.36"	75°27'12.35"
111	Kasrawad - Nimirani 220	12.34	24	8	Kasrawad 132	22°07'30.14"	75°33'36.36"	-	-	-	NIMRANI 220	22°07'08.36"	75°27'12.35"
112	Badwani - Nimirani 220	59.44	24	8	Badwani 220	22°02'45.20"	74°54'17.06"	-	-	-	NIMRANI 220	22°07'08.36"	75°27'12.35"
113	Kukshi - Alirajpur 132KV line	42.41	24	8	Kukshi 220	22°11'01.03"	74°45'32.14"	-	-	-	ALIRAJPUR 132	22°17'36.26"	74°22'38.5"
114	L.I.L.O Manawar - Kukshi DCSS line at Singhana (2x3.1)	3.50	48	8	Manawar 132	22°14'55.54"	75°05'22.01"	Kukshi	22°11'01.03"	74°45'32.14"	SINGHANA 132	22°12'28.71"	74°58'29.50"
115	Portion of Omkareshwar HEP - Loc No.29 of Omkareshwar HEP - Barwaha 220 line	23.07	24	8	Omkareshwar HEP	-	-	-	-	-	Barwaha 220	22°14'57.88"	76°00'20.73"
116	From Loc. No.29 to Barwaha 220 of Omkareshwar HEP - Barwaha 220 line	8.73	48	8	Barwaha 220	22°14'57.88"	76°00'20.73"	-	-	-	Barwaha 220	22°14'57.88"	76°00'20.73"
117	Badgaon - Nepanagar 220	23.37	24	8	Badgaon 132	21°17'45.95"	76°18'59.46"	-	-	-	Nepanagar 220	21°28'04.92"	76°23'47.85"
118	Chhegaon 220 - Chhegaon 132 (I/c-I)	13.41	24	8	Chhegaon 220	21°55'44.30"	76°10'40.01"	-	-	-	CHHEGAON	21°49'42.11"	76°12'54.93"
119	Chhegaon 220 - Moondi	44.27	24	8	Chhegaon 220	21°55'44.30"	76°10'40.01"	-	-	-	MAKHAN 132	22°04'41.41"	76°29'16.91"
120	Chhegaon 400 - Andad 132 - Khargone	68.42	24	8	Chhegaon 400	21°55'44.30"	76°10'40.01"	Andad 132	21°56'49.00"	75°50'52.82"	Khargone 132	21°50'21.83"	75°36'06.92"
121	Bahadurpur - Nepanagar (Charandj) 220	34.04	24	8	Bahadurpur 132	21°17'35.05"	76°10'29.60"	-	-	-	NEPANAGAR 220	21°28'04.92"	76°23'47.85"
122	L.I.L.O portion of Chhegaon 400 - Khargone 132 line for Andad 132	6.34	48	8	Chhegaon 400	21°55'44.30"	76°10'40.01"	Khargone	21°50'21.83"	75°36'06.92"	Andad 132	21°56'47.87"	75°50'52"
123	Burhanpur Tap - (Laibagh) Burhanpur 132	2.00	48	8	Burhanpur Tap	21°19'53.16"	76°12'14.03"	-	-	-	LALBAUGH (BURHANPUR) 132	21°19'53.16"	76°12'14.03"
124	Chhegaon-Nepanagar 220	46.42	24	8	Chhegaon 220	21°55'44.30"	76°10'40.01"	-	-	-	Nepanagar 220	21°28'04.92"	76°23'47.85"
125	Chhindwara 132 - Chhindwara 220 - Boregaon 132 - Pandhurna 132	82.00	24	8	Chhindwara 132	22°01'23.74"	78°55'49.20"	Boregaon	21°33'32.35"	78°49'05.16"	PANDHURNA 220	21°35'18.74"	78°32'40.01"
126	Chhindwara - Khasawani	43.68	24	8	Chhindwara 132	22°01'23.74"	78°55'49.20"	-	-	-	KHAPASWAMI 132	22°11'05.38"	78°33'52.13"
127	Katni 220 - Kymore 132	37.00	24	8	Katni 220	23°52'34.24"	80°21'15.15"	-	-	-	Kymore 132	24°02'44.95"	80°35'36.57"
128	L.I.L.O portion of Chhindwara 132 - Pandhurna 132 for Chhindwara 220	4.87	48	8	Chhindwara 132	22°01'23.74"	78°55'49.20"	Pandhurna 132	21°35'18.74"	78°32'40.01"	Chhindwara 220	22°01'46.97"	78°58'47.97"
129	L.I.L.O portion of Chhindwara 132 - Sarni 132 Line for Umreth 132	0.50	48	8	Chhindwara 132	22°01'23.74"	78°55'49.20"	Sarni 132	22°06'31.07"	78°09'23.60"	UMRETH 132	22°07'20.60"	78°42'16.78"

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
130	LILo portion of Chhindwara 132 - Pandhurna132 at Boregaon132	11.00	48	8	Chhindwara 132	22°01'23.74"	78°55'49.20"	Pandhurna132	21°35'18.74"	78°32'40.01"	BOREGAON 132	21°33'13.16"	78°49'01.26"
131	Satpura TPS - Sarni 220	3.00	24	8	Satpura TPS	-	-	-	-	-	Sarni 220	22°06'31.07"	78°09'23.60"
132	Bhopal 220 - Vidisha 220	54.63	24	8	Bhopal 220	23°15'14.68"	77°26'17.11"	-	-	-	Vidisha 220	23°30'44.54"	77°49'45.34"
133	Betul132 - Multai132	52.36	24	8	Betul 132	21°54'28.42"	77°53'30.52"	-	-	-	Multai 132	21°46'53.14"	78°16'48.55"
134	Handiya 220 - Nasrullaganj	48.11	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	-	NASRULLAHGANJ 132	22°41'41.74"	77°18'56.97"
135	Handiya220 - Satwas	34.77	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	-	SATWAS 132	22°31'43.87"	76°41'27.83"
136	Handiya220-Harda	14.25	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	-	HARDA 132	22°21'59.41"	77°04'34.64"
137	Handiya220-Sultanpur	31.30	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	-	SUL-TANPUR 132	22°12'31.07"	77°02'31.83"
138	Harde-Khirkiya	38.07	24	8	Harde 132	22°21'59.41"	77°04'34.64"	-	-	-	KHIRKIYA 132	22°09'11.17"	76°52'16.47"
139	Hoshangabad220 - Shahganj	36.91	24	8	Hoshangabad 220	22°43'59.17"	77°43'20.33"	-	-	-	SHAHGANJ 132	22°53'13.01"	77°50'34.45"
140	Handiya220-Kannod	41.40	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	-	KANNOD 132	22°40'38.70"	76°43'24.77"
141	Sarni - Betul	36.72	24	8	Sarni 220	22°06'31.07"	78°09'23.60"	-	-	-	BETUL 132	21°54'28.42"	77°53'30.52"
142	portion of 220 KV Satpura-Itarsi 220 line from Handia LILo point to Itarsi 220	0.20	48	8	Satpura	-	-	Itarsi 220	22°34'08.67"	77°47'52.15"	Itarsi 220	22°34'08.67"	77°47'52.15"
143	LILo portion of Bhopal 220 - Vidisha 220 line for Ayodhyaanagar 132	2.09	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	Vidisha 220	23°30'44.54"	77°49'45.34"	AYODHYA NAGAR 132	23°17'11.95"	77°27'43.19"
144	LILo portion of Bhopal220 - Vidisha220 Line for Berasiyat132	31.62	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	Vidisha 220	23°30'44.54"	77°49'45.34"	BERASIA 132	23°36'17.87"	77°25'42.62"
145	LILo portion of Pipariya 220 - Gadanwara132 for Bankhedi	3.08	48	8	Pipariya 220	22°43'39.33"	78°20'01.73"	Gadanwara132	22°56'8.17"	78°47'40.46"	BANKHEDI 132	22°46'58.41"	78°31'16.05"
146	Khategaon Tap point - Khategaon	8.88	48	8	Khategaon Tap	22°34'14.11"	76°57'48.46"	-	-	-	KHARGONE 132	21°50'21.83"	75°36'06.92"
147	LILo portion of 132 KV Betul132 - Multai132 at Betul220	3.60	48	8	Betul 132	21°54'28.42"	77°53'30.52"	Multai 132	21°46'53.14"	78°16'48.55"	BETUL 220	21°49'31.69"	77°52'58.69"
148	LILo portion of Handiya220 - Nasrullaganj at Gopapur	3.47	48	8	Handiya 220	22°27'34.55"	77°00'09.41"	Nasrullaganj	22°41'41.74"	77°18'56.97"	GOPALPUR 132	22°38'49.28"	77°07'41.88"
149	LILo of one ckt. Of 220KV Bhopal - Ashtia line for Mughalia Chhap DCDS (2x23+ 4x3)	29.00	48	8	Bhopal 220	23°15'14.69"	77°26'17.11"	Ashtia I	23°01'56.06"	76°42'39.35"	MUGALIYACHAA P 220	23°13'02.46"	77°17'48.88"
150	LILo of 132 kv Vidisha - Bairasia line at Salamatpur.132KV S/S (2x1)	1.00	48	8	Vidisha 220	23°30'44.54"	77°49'45.34"	Bairasia	-	-	SALAMATPUR 132	23°27'55.02"	77°42'52.08"
151	Portion of 220KV Damoh400(PGCIL) - Sagar 400 line from Location No. 3 (Common M/C tower) to 400 KV Sagar	63.08	24	8	Damoh400 (PGCIL)	-	-	-	-	-	SAGAR 400	23°49'50.52"	78°50'32.86"
152	Damoh220 to Location No. 3 (Common M/C tower) of 220KV Damoh400(PGCIL)	0.70	48	8	Damoh 220	23°47'16.60"	79°27'48.38"	-	-	-	DAMOHI 220	23°47'16.60"	79°27'48.38"
153	220 KV Mahalgaon220 - Pichhore 220 KV (under up gradation)	120.88	24	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Pichhore 220	25°10'44.33"	78°11'33.30"	PICHHORE 220	25°10'44.33"	78°11'33.30"
154	LILo of 220 KV Mahalgaon - Pichhore 220 at Datia 220	1.00	48	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Pichhore 220	25°10'44.33"	78°11'33.30"	DATIA 220	25°42'20.96"	78°25'45.97"
155	Badnagar220 - Ingoniya132	39.03	24	8	Badnagar 220	23°04'00.79"	75°21'52.94"	-	-	-	INGORIA 132	23°08'45.87"	75°32'48.06"
156	Ingoniya132 - Ratadiya132(Upto Lilo TN 59/10)	20.03	24	8	Ingonia 132	23°08'45.87"	75°32'48.06"	-	-	-	MULLAPURA RATADITA 132	23°11'51.63"	75°42'21.81"
157	Ingoniya132 - Ratadiya132(Upto Lilo TN 59/10 to Ratadiya)	1.71	24	8	Ingonia 132	23°08'45.87"	75°32'48.06"	-	-	-	MULLAPURA RATADITA 132	23°11'51.63"	75°42'21.81"
158	Common Portion of 132KV Ingoniya - Badnagar & Ingoniya - Ratadiya line (3 towers)	0.30	48	8	Ingonia 132	23°08'45.87"	75°32'48.06"	Badnagar	23°04'10.92"N	75°21'52.72"	MULLAPURA RATADITA 132	23°11'51.63"	75°42'21.81"
159	132 KV Mahalgaon 220 - Karera 132	99.26	24	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	-	-	-	Karera 132	25°27'37.31"	78°10'00.75"
160	Karera-Marikheda	45.29	24	8	Karera 132	25°27'37.31"	78°10'00.75"	-	-	-	Marikheda	-	-

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					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
161	LILO portion of Gwalior (Mahalgaon) 220 - Pichhore132 Line for Dabra132	0.26	48	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Pichhore132	25°10'44.33"	78°11'33.30"	Dabra 132	25°52'07.25"	78°19'08.00"
162	LILO portion of Gwalior (Mahalgaon) 220 - Pichhore132 Line for Dattiyar132	22.90	48	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Pichhore132	25°10'44.33"	78°11'33.30"	DATIA 132	25°39'43.05"	78°26'57.95"
163	Datiya 220 - Dattiya 132 (interconnector)	6.20	24	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	DATIA 132	25°39'43.05"	78°26'57.95"
164	Datiya220 - Bhandar 132kv DCSS Line (1x24 km)	34.11	24	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	BHANDER 132	25°42'31.17"	78°44'32.99"
165	Datiya220 - Indergarh 132kv DCSS line (1X27.202)	27.00	24	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	INDARGARH 132	25°54'34.38"	78°33'5.62"
166	Common portion of Dattiyaz220 - Bhandar with 132 kv Dattiyaz220 - Indergarh	1.16	48	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	INDARGARH 132	25°54'34.38"	78°33'5.62"
167	Sabalgarh - Jora - Motijheel (Gwalior)	76.03	24	8	Sabalgarh 220	26°15'35.98"	77°26'12.92"	Jora	26°21'39.95"	77°49'26.40"	GWALIOR MOTIJHEEL 132	26°14'54.67"	78°08'32.10"
168	Gwalior 220(Mahalgaon)-Tighra Road -Motizeel (Gwalior)	28.97	24	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Tighra	26°12'44.74"	78°06'56.55"	GWALIOR MOTIJHEEL 132	26°14'54.67"	78°08'32.10"
169	132kv Rajghat LILO point Pichhore	48.00	24	8	132kv Rajghat	23°59'10.90"	76°43'38.60"	-	-	-	PICHHORE 220	25°10'44.33"	78°11'33.30"
170	Dattiyaz220-Dabra 132kv DCSS line	30.00	24	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	DABRA 132	25°52'07.25"	78°19'08.00"
171	Dattiyaz220-Dabra 132kv common portion	1.18	48	8	Datiya 220	25°42'20.96"	78°25'45.97"	-	-	-	DABRA 132	25°52'07.25"	78°19'08.00"
172	LILO portion of Bina400(MP) - Guna220 line for Ashoknagar 220	3.79	48	8	Bina 400	24°12'35.42"	78°15'39.43"	Guna220	24°37'43.14"	77°16'36.27"	ASHOKNAGAR 220	24°33'42.95"	77°44'37.47"
173	LILO portion of Malanpur 220 - Ambah132 Line for Dimni 132	2.50	48	8	Malanpur 220	26°22'49.98"	78°18'06.88"	Ambah132	26°41'57.42"	78°12'54.40"	BADAGAON DIMNI 132	26°35'52.79"	78°08'32.86"
174	LILO portion of 132kv Sabalgarh - Motijheel at Jora	3.66	48	8	Sabalgarh 220	26°15'35.98"	77°26'12.92"	Motijheel	26°14'54.67"	78°08'32.10"	JORA 132	26°21'34.25"	77°49'26.71"
175	LILO portion of Maqsudangarh132 - Sironji132 line at Lateri 132	6.70	48	8	Maqsudangarh 132	24°09'51.96"	77°12'51.76"	Sironji132	24°05'13.99"	77°42'46.11"	Lateri 132	24°22'1.85"	77°25'01.46"
176	LILO portion of Gwalior 220(Mahalgaon) -Motizeel (Gwalior) line at Tighra	0.45	48	8	Mahalgaon 220	26°11'24.49"	78°12'19.49"	Motizeel (Gwalior)	26°14'54.67"	78°08'32.10"	TIGRA ROAD 132	26°12'13.69"	78°06'57.75"
177	LILO portion of Ujjain 220 - Ratadiya (Mullapura) Line for Bherugam132	3.84	48	8	Ujjain 220	23°11'34.78"	75°50'35.45"	Ratadiya (Mullapura)	23°11'51.63"	75°42'21.81"	Bherugam 132	23°15'40.36"	75°44'10.12"
178	LILO portion of Bina 220 - Pichhore for Rajghat HPS	9.48	48	8	Bina 220	24°10'32.12"	78°12'41.85"	Pichhore132	25°10'44.33"	78°11'33.30"	Rajghat HPS	-	-
179	LILO portion of Bina 220 - Pichhore for Chanderi	0.97	48	8	Bina 220	24°10'32.12"	78°12'41.85"	Pichhore132	25°10'44.33"	78°11'33.30"	CHANDERI 132	24°43'46.36"	78°08'08.17"
180	LILO of one ckt of Neemuch (220kv) - Rajangam line for Morwan 132kv S/S DCDS (2x1)	0.66	48	8	Neemuch 220	24°28'30.52"	74°53'00.87"	Ratangam	24°47'16.87"	75°05'50.71"	Morwan 132	24°37'31.82"	75°00'47.31"
181	Singaji TPS - Chhhegaon 400	55.00	24	8	Singaji TPS	-	-	-	-	-	CHHEGAON MAKHAN (400) 220	21°55'44.30"	76°10'40.01"
182	Railam 220 - Railam 132	7.40	24	8	Railam 220	23°19'45.24"	75°04'01.99"	-	-	-	Railam 132	23°21'14.75"	75°03'09.04"
183	Mandsaur - Neemuch 220 132KV DCDS line	50.51	24	8	Mandsaur 132	24°05'04.96"	75°03'30.71"	-	-	-	NEEMUCH 220	24°28'30.52"	74°53'00.87"
184	LILO portion of Badod 220 - Gandhisagar 132 line for Garoth 132	2.44	48	8	Barod 220	23°49'17.15"	75°48'03.20"	Gandhisagar 132	-	-	Garoth 132	24°20'56.70"	75°40'23.18"
185	LILO portion of Badod 220 - Gandhisagar 132 line for Suwasra 132	10.00	48	8	Barod 220	23°49'17.15"	75°48'03.20"	Gandhisagar 132	-	-	Suwasra 132	24°04'26.62"	75°39'42.62"
186	LILO of 132kv Badod-Garoth line at Shyamgarh (2x3)	3.00	48	8	Barod 220	23°49'17.15"	75°48'03.20"	Garoth	24°20'56.70"	75°40'23.18"	Shyamgarh	24°09'09.66"	75°38'04.92"

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					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
187	Jeerapur-Khichipur	22.56	24	8	Jeerapur 132	24°0'0.02"	76°22'34.36"	-	-	KHILCHIPUR 132	24°0'10.659"	76°34'33.55"	
188	Julwanjya400 - Anjad	23.11	24	8	Julwanjya 400	21°54'35.37"	75°15'08.93"	-	-	ANJAD 132	21°59'02.52"	75°3'53.25"	
189	Dewas (BNP)-Dewas (MSP)	7.00	24	8	Dewas (BNP)	22°56'48.34"	76°0'138.49"	-	-	Dewas (MSP) 132	22°56'48.34"	76°0'138.49"	
190	Dewas (BNP)-Dewas 220	2.00	24	8	Dewas (BNP)	22°56'48.34"	76°0'138.49"	-	-	Dewas 220	22°56'06.42"	76°04'54.95"	
191	Ashia220 - Ashia132	5.18	24	8	Ashia 220	23°04'26.80"	76°42'05.23"	-	-	Ashia 132	23°01'56.06"	76°42'39.35"	
192	Ashia220 - Polakalan	26.84	24	8	Ashia 220	23°04'26.80"	76°42'05.23"	-	-	POLAKALAN 132	23°14'06.98"	76°32'21.04"	
193	Pachore-Shujapur220	34.32	24	8	Pachore 132	25°10'44.33"	78°11'33.30"	-	-	Shujapur 220	23°25'27.66"	76°42'43.23"	
194	Shujapur 132 - Shujapur 220	3.50	24	8	Shujapur 132	23°23'41.41"	76°42'26.95"	-	-	Shujapur 220	23°25'27.66"	76°42'43.23"	
195	Shujapur220 - Kalappal 132	16.43	24	8	Shujapur 220	23°25'27.66"	76°42'43.23"	-	-	Kalappal 132	23°20'24.83"	76°49'25.96"	
196	Shajapur 220 - Shajapur 132 DCSS line	5.00	24	8	Shajapur 220	23°24'29.82"	76°15'32.83"	-	-	Shajapur 132	23°24'42.01"	76°15'43.00"	
197	Aron - Guna220	49.63	24	8	Aron 132	24°22'56.73"	77°23'52.23"	-	-	Guna 220	24°37'43.14"	77°16'36.27"	
198	Bhonia - Raghoghar	34.77	24	8	Bhonia 132	24°43'44.08"	77°05'06.64"	-	-	Raghoghar 132	24°26'19.86"	77°08'25.01"	
199	Bina220 - Mungoli 132	37.50	24	8	Bina 220	24°10'32.12"	78°12'41.85"	-	-	MUGAWALI 132	24°24'51.61"	78°04'25.39"	
200	Shamsabad - Vidisha220	57.93	24	8	Shamsabad 220	23°49'17.52"	77°32'08.69"	-	-	Vidisha 220	23°30'44.54"	77°49'45.34"	
201	Bina220 - Khurai 132KV DCSS line	17.61	24	8	Bina 220	24°10'32.12"	78°12'41.85"	-	-	Khurai 132	24°02'00.48"	78°18'28.84"	
202	2nd circuit of Gairatganj - Vidisha220 132KV line	48.00	24	8	Gairatganj 132	23°24'07.88"	78°12'15.92"	-	-	Vidisha 220	23°30'44.54"	77°49'45.34"	
203	Khurai - Khimlisa 132KV DCSS line	21.00	24	8	Khurai 132	24°02'00.48"	78°18'28.84"	-	-	Khimlisa 132	24°12'02.50"	78°21'28.44"	
204	Betul- Chincholi	26.55	24	8	BETUL 220	21°49'31.69"	77°52'58.69"	-	-	CHICHOLI 132	21°57'59.36"	77°42'34.50"	
205	Itarsi-Seoni Malwa	34.90	24	8	Itarsi 220	22°34'08.67"	77°47'52.15"	-	-	SEONI MALWA 132	22°28'33.83"	77°29'17.41"	
206	Pipariya220-Semri Harchand(Sohagpur) (Existing OPGW)	35.00	24	8	Pipariya 220	22°43'39.33"	78°20'01.73"	-	-	HARCHARAN 132	22°39'10.49"	77°58'18.73"	
207	Barman - Narsinghpur220	25.94	24	8	Barman 132	23°02'28.07"	79°01'50.11"	-	-	Narsinghpur 220	22°56'15.58"	79°13'13.05"	
208	Chhindwara 220 - Bichhua (PGCIL Cable issues)	26.10	24	8	Chhindwara 220	22°01'46.97"	78°58'47.97"	-	-	BICHHUA (CHHINDWARA) 132	21°48'51.55"	79°02'45.36"	
209	Narsinghpur 132-Narsinghpur 220	7.11	24	8	Narsinghpur 132	22°57'27.25"	79°10'53.23"	-	-	Narsinghpur 220	22°56'15.58"	79°13'13.05"	
210	Barman - Chichli220- Gadarwara	35.00	24	8	Barman 132	23°02'28.07"	79°01'50.11"	Chichli	22°51'20.31"	GADARWARA 132	22°56'8.17"	78°47'40.46"	
211	LILO portion of Barman - Gadarwara for Chichli 220	13.87	48	8	Barman 132	23°02'28.07"	79°01'50.11"	Gadarwara	22°56'8.17"	Chichli 220	22°51'16.63"	78°48'25.77"	
212	Shivpuri - Sabalgarh	100.27	24	8	Shivpuri 220	25°28'39.59"	77°40'16.16"	-	-	SABALGARH 220	26°15'35.98"	77°26'12.92"	
213	Malanpur220 - Gohad 132	23.28	24	8	Malanpur 220	26°22'49.98"	78°18'06.88"	-	-	Gohad 132	26°24'31.48"	78°26'20.25"	
214	Melgaon-Ron	42.35	24	8	Melgaon 220	26°29'26.66"	78°35'23.92"	-	-	RON 132	26°19'46.24"	78°57'17.76"	
215	Ron - Lahar	14.56	24	8	Ron 132	26°19'46.24"	78°57'17.76"	-	-	LAHAR 132	26°12'20.81"	78°56'04.65"	
216	Shoapur 132 to Baroda 132KV DCSS line (Existing OPGW)	33.48	24	8	Shoapur 132	25°40'36.64"	76°43'23.27"	-	-	BARODA 132	25°31'17.22"	76°38'56.88"	
217	Shivpuri 220-Shivpuri 132	13.40	24	8	Shivpuri 220	25°28'39.59"	77°40'16.16"	-	-	Shivpuri 132	25°22'55.43"	77°38'21.16"	
218	Melgaon220-Porsa	31.03	24	8	Melgaon 220	26°29'26.66"	78°35'23.92"	-	-	PORSA 132	26°41'09.43"	78°24'07.45"	
219	Porsa - Ambah 132KV DCSS line (1x23km)	23.00	24	8	Porsa 132	26°41'09.43"	78°24'07.45"	-	-	AMBAH 132	26°41'57.42"	78°12'54.40"	
220	Lahar - Seondha	17.00	24	8	Lahar 132	26°12'20.81"	78°56'04.65"	-	-	Seondha 132	26°08'40.62"	78°47'13.02"	
221	Melgaon220 - Pratappura	30.00	24	8	Melgaon 220	26°29'26.66"	78°35'23.92"	-	-	Pratappura 132	26°42'44.43"	78°41'52.96"	
222	Hatta LIL O point - Bliawar 132 (LIL O T.No. 126/1 to Bliawar)	72.40	24	8	Hatta 132	24°06'55.55"	79°35'35.32"	-	-	Bliawar 132	24°39'18.05"	79°29'54.03"	
223	Damoh132-Damoh 220 (1/C)	3.66	24	8	Damoh 132	23°48'57.40"	79°26'53.85"	-	-	Damoh 220	23°47'16.60"	79°27'48.38"	
224	Damoh220 to Batiyagarh 132KV DCSS line	47.47	24	8	Damoh 220	23°47'16.60"	79°27'48.38"	-	-	Batiyagarh 132	24°07'39.27"	79°22'15.41"	
225	Jatara - Tikamganj220	36.97	24	8	Jatara 132	24°56'27.47"	79°00'24.58"	-	-	Tikamganj 220	24°47'39.07"	78°50'16.90"	

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILo Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
226	Prihvipur-Tikamgarh220	49.00	24	8	Prihvipur 132	25°13'08.20"	78°44'55.49"	-	-	Tikamgarh 220	24°47'39.07"	78°50'16.90"	
227	Damoh 132-Hatta LILo point (Damoh to LILo T.No. 126/1)	32.00	24	8	Damoh 132	23°48'57.40"	79°26'53.85"	-	-	Hatta 132	24°06'55.55"	79°35'35.32"	
228	LILo Portion of Damoh 132-Bijawar 132 for Hatta 132	15.50	48	8	Damoh 132	23°48'57.40"	79°26'53.85"	Bijawar	79°29'54.03"	Hatta 132	24°06'55.55"	79°35'35.32"	
229	Sagar-Rahaigarh 132KV DCSS line	55.00	24	8	Sagar 132	23°50'40.95"	78°47'51.79"	-	-	Rahaigarh 132	23°47'34.98"	78°29'09.48"	
230	Prihvipur-Tikamgarh220 common	0.47	48	8	Prihvipur 132	25°13'08.20"	78°44'55.49"	-	-	Tikamgarh 220	24°47'39.07"	78°50'16.90"	
231	Udaipura - Silvani 132KV DCSS line- (1x26 km)	26.00	24	8	Udaipura 220	23°07'59.57"	78°30'23.22"	-	-	SILVANI 132	23°19'11.28"	78°24'23.88"	
232	Chhatrapur220-Nowgaon	33.00	24	8	Chhatrapur 220	24°53'12.41"	79°35'41.34"	-	-	NOVGAON 132	25°02'18.26"	79°26'47.90"	
233	Sagar-Banda	28.56	24	8	Sagar 220	23°49'50.52"	78°50'32.86"	-	-	Banda 132	24°02'18.56"	78°58'26.68"	
234	Tikamgarh220 - Tikamgarh132	21.32	24	8	Tikamgarh 220	24°47'39.07"	78°50'16.90"	-	-	Tikamgarh 132	24°43'53.08"	78°50'34.78"	
235	Tikamgarh220 - Digoda 132KV DCSS line.	20.16	24	8	Tikamgarh 220	24°47'39.07"	78°50'16.90"	-	-	Digoda 132	24°57'48.80"	78°49'31.73"	
236	Sagar-Gaurjhamar	45.39	24	8	Sagar 132	23°50'40.95"	78°47'51.79"	-	-	Gaurjhamar	23°30'54.13"	78°56'15.05"	
237	2nd circuit of Tikamgarh-Budhera 132KV DCSS Line (33 km)	33.00	24	8	Tikamgarh 132	24°43'53.08"	78°50'34.78"	-	-	Budhera 132	24°43'43.78"	79°04'42.07"	
238	LILo of 132KV Tikamgarh-Bijawar line at Badmalhera (2x1.14Km)	1.14	48	8	Tikamgarh 132	24°43'53.08"	78°50'34.78"	Bijawar	79°29'54.03"	BADAMALEHRA 132	24°38'36.23"	79°19'29.59"	
239	Katra - Mangawan	37.59	24	8	Katra 132	24°55'25.19"	81°41'0.66"	-	-	Mangawan 132	24°38'49.41"	81°32'59.79"	
240	Majhawan - Satna220	49.66	24	8	Majhawan 132	24°54'36.58"	80°48'52.72"	-	-	Satna 220	24°34'42.22"	80°43'25.74"	
241	Rampur Baghelan - Rewa 132	18.87	24	8	Rampur Baghelan	24°32'11.06"	81°04'52.76"	-	-	Rewa 132	24°32'03.86"	81°15'38.59"	
242	Rewa220 - Mangawan	38.93	24	8	Rewa 220	24°29'12.08"	81°17'50.65"	-	-	Mangawan 132	24°38'49.41"	81°32'59.79"	
243	Sidhi220 - Deosar132	50.62	24	8	Sidhi 220	24°21'31.89"	81°50'28.00"	-	-	Deosar 132	82°16'35.03"	82°16'35.03"	
244	Sidhi220 - Sidhi132	7.50	24	8	Sidhi 220	24°21'31.89"	81°50'28.00"	-	-	Sidhi 132	24°24'47.99"	81°51'37.89"	
245	Narsinghpur220 - Chichi220 - Pipariya220	92.63	24	8	Narsinghpur 220	22°56'15.58"	79°13'13.05"	Chichi220	78°49'02.27"	Pipariya 220	22°43'39.33"	78°20'01.73"	
246	LILo portion of Narsinghpur220 - Pipariya220 Line for Chichi220	3.60	48	8	Narsinghpur 220	22°56'15.58"	79°13'13.05"	Pipariya220	78°20'01.73"	Chichi 220	22°51'16.63"	78°48'25.77"	
247	Rewa220 - Mangawan Common portion	0.45	48	8	Rewa 220	24°29'12.08"	81°17'50.65"	-	-	Mangawan 132	24°38'49.41"	81°32'59.79"	
248	LILo portion of Chhindwara220 - Seoni220 Line for Amarwada132	32.92	48	8	Chhindwara 220	22°01'46.97"	78°58'47.97"	Seoni220	79°31'28.12"	AMRAWAT KHURD 132	23°12'44.54"	77°29'59.85"	
249	LILo portion of Chhindwara220 - Seoni220 Line for Chorai132	1.72	48	8	Chhindwara 220	22°01'46.97"	78°58'47.97"	Seoni220	79°31'28.12"	CHOURAI 132	22°02'16.83"	79°16'16.40"	
250	Patan Tap-Patan	7.34	48	8	Patan 132	23°17'12.26"	79°41'41.13"	-	-	Patan 132	23°17'12.26"	79°41'41.13"	
251	Karakbel - Belkheda 132KV DCSS line-25 km	25.00	24	8	Karakbel 132	22°58'45.99"	79°24'15.28"	-	-	Belkheda 132	23°11'24.97"	79°27'04.98"	
252	Sabalgarh220 - Kellaras 132KV DCSS Line-25 km	25.00	24	8	Sabalgarh 220	26°15'35.98"	77°26'12.92"	-	-	KAILARAS 132	26°18'34.05"	77°36'55.98"	
253	Bhind - Mehgaon220	25.00	24	8	Bhind 132	26°33'39.93"	78°48'50.28"	-	-	Mehgaon 220	26°29'26.66"	78°35'23.92"	
254	Common Portion Mehgaon-Bhind & Mehgaon-Seondha	0.69	48	8	Mehgaon 220	26°29'26.66"	78°35'23.92"	Bhind	78°48'49.47"	Seondha 132	26°08'40.62"	78°47'13.02"	
255	Shivpuri220 - Mohna132 (Hold from MPPTCL)	62.99	24	8	Shivpuri 220	25°28'39.59"	77°40'16.16"	-	-	Mohna 132	25°51'57.24"	77°45'59.81"	
256	Shivpuri220 - Bairath 132KV DCSS line (1X32.859) (Hold from MPPTCL)	33.00	24	8	Shivpuri 220	25°28'39.59"	77°40'16.16"	-	-	Bairath 132	25°40'44.71"	77°26'13.75"	
257	Katni 220 - Sleemabad	29.14	24	8	Katni 220	23°52'34.24"	80°21'15.15"	-	-	Sleemabad 132	23°39'19.21"	80°13'14.76"	
258	Jabalpur220-Narsinghpur	74.59	24	8	Jabalpur 220	23°07'42.80"	79°53'26.50	-	-	NARSINGHPUR 132	22°57'27.25"	79°10'53.23"	
259	Damoh 220- Tejgarh - Patan Tap - Jabalpur220	89.06	24	8	Damoh 220	23°47'16.60"	79°27'48.38"	Tejgarh	79°33'03.33"	JABALPUR 220(400)	23°07'42.80"	79°53'26.50	
260	Jabalpur220-Jabalpur VFJ	22.00	24	8	Jabalpur 220	23°07'42.80"	79°53'26.50	-	-	JABALPUR 220(400)	23°07'42.80"	79°53'26.50	
261	Jabalpur220-Maneri (Jabalpur 220 S/S to Lilo TN 54)	35.00	24	8	Jabalpur 220	23°07'42.80"	79°53'26.50	-	-	Maneri 132	23°05'58.80"	80°12'58.57"	

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
262	Nainpur-Mandla	43.71	24	8	Nainpur 132	22°25'53.28"	80°08'52.73"	-	-	MANDLA 132	22°35'22.21"	80°24'56.42"	
263	Seoni132 - Lalbarra 132- Balaghat 132	75.35	24	8	Seoni 132	22°06'12.86"	79°33'30.13"	21°56'48.47"	80°01'42.93"	Balaghat 132	21°48'18.41"	80°10'38.07"	
264	LILO portion of Seoni132 - Balaghat 132 Line for Lalbarra 132	0.73	48	8	Seoni 132	22°06'12.86"	79°33'30.13"	21°48'18.41"	80°10'38.07"	Lalbarra 132	21°56'45.02"	80°01'43.48"	
265	Balaghat - Baihar	61.89	24	8	Balaghat 132	21°48'18.41"	80°10'38.07"	-	-	Baihar 132	22°03'56.33"	80°33'30.24"	
266	Balaghat - Bhaneagaon	41.63	24	8	Balaghat 132	21°48'18.41"	80°10'38.07"	-	-	Bhaneagaon 132	21°31'48.29"	80°26'57.67"	
267	Katangi Tap - Katangi	35.67	48	8	Katangi	23°29'22.32"	79°49'28.18"	-	-	KATANGI (PANAGAR) 132	23°29'22.32"	79°49'28.18"	
268	Panagar - Katangi 132KV DCDS line (2X28)	27.00	24	8	Panagar 220	23°15'39.19"	79°54'32.48"	-	-	KATANGI (PANAGAR) 132	23°29'22.32"	79°49'28.18"	
269	Panagar - Katangi 132KV DCDS line (2X28)	1.40	48	8	Panagar 220	23°15'39.19"	79°54'32.48"	-	-	KATANGI (PANAGAR) 132	23°29'22.32"	79°49'28.18"	
270	Chichli 220 - Karapgaon (Kareli) 132KV DCSS line (1X31.059)	31.00	24	8	Chichli 220	22°51'16.63"	78°48'25.77"	-	-	KARAPGAON 132	22°53'02.69"	79°05'00.90"	
271	Chichli 220 - Karapgaon (Kareli) 132KV DCSS line (1X31.059)	2.33	48	8	Chichli 220	22°51'16.63"	78°48'25.77"	-	-	KARAPGAON 132	22°53'02.69"	79°05'00.90"	
272	common portion of 132kv Ashoknagar 220 -Kothia & Eshagharh line - Eshagharh 132KV DCSS Line	18.50	24	8	Ashoknagar 220	24°33'42.95"	77°44'37.47"	24°39'27.45"	77°31'39.47"	Kothia	24°49'35.18"	77°51'59.12"	
273	Double portion of Mugalia Chap-Bhopal(MACT) line	15.00	24	8	Mugalia Chap	23°13'02.46"	77°17'48.88"	-	-	MACT BHOPAL 132	23°12'22.16"	77°24'06.77"	
274	Mitti Circuit portion of Mugalia Chap-Bhopal (MACT) line	20.34	48	8	Mugalia Chap	23°13'02.46"	77°17'48.88"	-	-	MACT BHOPAL 132	23°12'22.16"	77°24'06.77"	
275	Ganjbasoda220 to Saharwasa 132KV DCSS line	28.93	24	8	Ganjbasoda 220	23°51'09.38"	77°54'18.82"	-	-	Saharwasa 132	23°57'55.23"	78°7'52.43"	
276	Pipariya220 - Bareilly 132	33.98	24	8	Pipariya 220	22°43'39.33"	78°20'01.73"	-	-	Bareilly 132	23°00'44.53"	78°14'42.59"	
277	Pipariya220 - Pipariya132 (IC-11)	4.65	24	8	Pipariya 220	22°43'39.33"	78°20'01.73"	-	-	PIPARIA 132	22°45'45.22"	78°20'34.43"	
278	Arnyakalan - Shujalpur132	22.36	24	8	Arnyakalan 132	23°13'10.55"	76°44'54.75"	-	-	Shujalpur 132	23°23'41.41"	76°42'26.95"	
279	Panwadi-Shajapur	25.75	24	8	Panwadi 132	23°32'16.43"	76°25'55.64"	-	-	SHAJAPUR 132	23°24'42.01"	76°15'43.00"	
280	Panwadi-Shajapur	1.87	48	8	Panwadi 132	23°32'16.43"	76°25'55.64"	-	-	Shajapur 132	23°24'42.01"	76°15'43.00"	
281	Shujalpur 220 - Narsinghgarh 132	55.00	24	8	Shujalpur 220	23°25'27.66"	76°42'43.23"	-	-	Narsinghgarh 132	23°46'04.31"	76°59'13.01"	
282	Dewas 220 - Agrod 132KV DCSS Line	21.00	24	8	Dewas 220	22°58'06.42"	76°04'54.95"	-	-	Agrod 132	23°07'04.94"	75°59'39.8"	
283	Ujjain220 - Chandrawatiganj	35.42	24	8	Ujjain 220	23°11'34.78"	75°50'35.45"	-	-	CHANDRAWATI GANJ (AJNOD) 132	22°56'16.23"	75°44'55.78"	
284	Ujjain220 - Ujjain132 (interconnector)	3.50	24	8	Ujjain 220	23°11'34.78"	75°50'35.45"	-	-	Ujjain 132	23°10'39.99"	75°48'00.48"	
285	Badnagar220 - Chhayan 132KV DCSS Line-31 km	31.00	24	8	Badnagar 220	23°04'00.79"	75°21'52.94"	-	-	Chhayan 132	23°01'17.79"	75°08'15.71"	
286	Ghatabliod Tap - Indore(SZ) 220	46.50	24	8	Ghatabliod 132	22°40'53.64"	75°28'49.89"	-	-	INDORE (S.Z.) 220	22°39'43.02"	75°53'05.20"	
287	Pithampur 132-Indore (SZ)220	23.50	24	8	Pithampur 132	22°35'29.65"	75°35'46.50"	-	-	INDORE (S.Z.) 220	22°39'43.02"	75°53'05.20"	
288	LILO portion of Pithampur 132-Indore (SZ)220 Line for Indore WZ132	3.60	48	8	Pithampur 132	22°35'29.65"	75°35'46.50"	22°39'43.02"	75°53'05.20"	INDORE (W) NAVDAPANTH 132	22°40'56.97"	75°45'46.08"	
289	LILO portion of Pithampur 132-Indore (SZ)220 Line for Rau132	1.57	48	8	Pithampur 132	22°35'29.65"	75°35'46.50"	22°39'43.02"	75°53'05.20"	Rau 132	22°37'10.68"	75°49'29.07"	
290	Ichhawar - Sehore 132kv DCSS line	35.00	24	8	Ichhawar 132	23°00'44.78"	77°01'37.87"	-	-	Sehore 132	23°13'33.27"	77°05'05.20"	
291	Handiya 220 - Barwaha 220 line (PMU at Barwaha)	106.74	24	8	Handiya 220	22°27'34.55"	77°00'09.41"	-	-	Barwaha 220	22°14'57.88"	76°00'20.73"	
292	Barwaha (220kv) - Kishangarh 132KV DCSS line	57.00	24	8	Barwaha 220	22°14'57.88"	76°00'20.73"	-	-	Kishangarh 132	24°29'19.50"	76°15'24.82"	

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					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates		
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude	
293	Dhar-Ghatabilod Tap	15.08	24	8	Dhar 220	22°35'27.21"	75°19'55.69"	-	-	GHATA BILLOD 132	22°40'53.64"	75°28'49.89"	22°40'53.64"	75°28'49.89"
294	Ghatabilod Tap - Ghatabilod	3.76	48	8	Ghatabilod	22°40'53.64"	75°28'49.89"	-	-	GHATA BILLOD 132	22°40'53.64"	75°28'49.89"	-	-
295	Badod 220 - Gandhisagar 132	118.11	24	8	Barod 220	23°49'17.15"	75°48'03.20"	-	-	Gandhisagar 220	-	-	-	-
296	Bairagarh 220 - Runaha	48.20	24	8	Bairagarh 220	23°19'11.37"	77°19'52.60"	-	-	Runaha 132	23°42'47.27"	77°15'51.27"	-	-
297	Bannore - Morena Tap	17.91	24	8	Bannore 132	26°21'40.63"	78°05'26.05"	-	-	Morena 132	26°28'57.62"	77°58'43.38"	-	-
298	Chhatapur 220 - Laundi 132	49.29	24	8	Chhatapur 220	24°53'12.41"	79°35'41.34"	-	-	Laundi 132	25°05'52.24"	79°56'29.69"	-	-
299	Dewas 220 - Barooha	16.70	24	8	Dewas 220	22°58'06.42"	76°04'54.95"	-	-	Barooha 132	22°51'44.70"	76°10'27.38"	-	-
300	Pithampur 220 - Pithampur 132	4.40	24	8	Pithampur 220	22°37'06.83"	75°40'43.75"	-	-	PITHAMPUR SEZ II 132	22°37'32.03"	75°38'21.15"	-	-
301	Laighat-Bhopal Chambal 220	6.02	24	8	Laighati 220	23°16'16.54"	77°22'30.54"	-	-	BHOPAL 220 (CHAMBAL)	23°15'14.69"	77°26'17.11"	-	-
302	Indore (SZ)220 - Mangliya Tap - Dewas (MSP)132	40.18	24	8	Indore (SZ)220	22°39'43.02"	75°53'05.20"	Mangliya Tap	22°48'14.48"	75°54'30.36"	DEWAS (MSP) 132	22°56'48.34"	76°01'38.49"	-
303	Rewa 220 - Rewa-II (Sagra) From TN O to TN 35	9.38	24	8	Rewa 220	24°29'12.08"	81°17'50.65"	-	-	Rewa 132	24°32'03.86"	81°15'38.59"	-	-
304	Rewa 220 - Rewa-II (Sagra) From TN O to TN 35	20.60	24	8	Rewa 220	24°29'12.08"	81°17'50.65"	-	-	REWA-II (SAGRA) 132	24°35'33.39"	81°23'11.12"	-	-
305	Saina 220 - Nagod	23.62	24	8	Saina 220	24°34'42.22"	80°43'25.74"	-	-	Nagod 132	24°33'00.13"	80°34'37.20"	-	-
306	Saina 220 - Pawai	52.52	24	8	Saina 220	24°34'42.22"	80°43'25.74"	-	-	Pawai 132	24°18'5.08"	80°07'56.46"	-	-
307	Shahdol - Dindon	61.76	24	8	Shahdol 220	23°16'54.89"	81°22'46.25"	-	-	Dindon 132	22°55'57.56"	81°07'25.99"	-	-
308	Malanpur 220 - Morena 220KV DCDS line (2x30)	30.00	24	8	Malanpur 220	26°22'49.98"	78°18'06.88"	-	-	MORENA 220 (JADERUA)	26°26'23.74"	78°02'46.66"	-	-
309	2nd circuit of Bairagarh - Shyampur - (1x0.5+4x1.9+19km)	19.09	24	8	Bairagarh 220	23°19'11.37"	77°19'52.60"	-	-	SHYAMPUR 132	23°22'57.67"	77°11'21.65"	-	-
310	2nd circuit of Chhatapur - Khajuraho 132KV line	34.00	24	8	Chhatapur	24°53'12.41"	79°35'41.34"	-	-	Khajuraho 132	24°46'15.89"	79°52'00.26"	-	-
311	Common portion of Chhatapur - Khajuraho	6.37	48	8	Chhatapur	24°53'12.41"	79°35'41.34"	-	-	Khajuraho 132	24°46'15.89"	79°52'00.26"	-	-
312	Dabra - Chinnar 132KV DCSS Line (30 km)	30.00	48	8	Dabra 132	25°52'07.25"	78°19'08.00"	-	-	CHINOR 132	25°58'06.97"	78°04'30.98"	-	-
313	Beragam 220 - Intkhedi 132KV DCDS line (2x9.58+4x1.5)	7.54	24	8	Beragam 220	23°19'11.37"	77°19'52.60"	-	-	Intkhedi 132	23°22'6.54"	77°23'6.99"	-	-
314	Narsinghpur 220 - Devnagar 132KV DCSS	23.00	24	8	Narsinghpur 220	22°56'15.58"	79°13'13.05"	-	-	Devnagar 132	22°45'48"	79°26'1.49"	-	-
315	Narsinghpur 220KV - Karakbel 132KV DCDS line (2x23)	23.00	24	8	Narsinghpur 220	22°56'15.58"	79°13'13.05"	-	-	Karakbel 132	22°58'45.99	79°24'15.28"	-	-
316	Narsinghpur 220KV - Karakbel 132KV DCDS line (2x23)	11.06	48	8	Narsinghpur 220	22°56'15.58"	79°13'13.05"	-	-	Karakbel 132	22°58'45.99	79°24'15.28"	-	-
317	2nd circuit of 132KV Pithampur - Jamli line	21.00	24	8	Pithampur 132	22°35'29.65"	75°35'46.50"	-	-	JAMIL 132	22°31'52.05"	75°41'52.18"	-	-
318	2nd circuit of 132KV Pithampur - Betma line (14Krn)	14.00	24	8	Pithampur 132	22°35'29.65"	75°35'46.50"	-	-	Betma 132	22°39'19.70"	75°37'31.64"	-	-
319	2nd circuit of 132KV Pithampur - Bagdi line (22Krn)	22.00	24	8	Pithampur 132	22°35'29.65"	75°35'46.50"	-	-	Bagdi 132	22°28'41.51"	75°27'07.66"	-	-
320	Mangliya Tap - Mangliya 132	0.63	48	8	Mangliya Tap	23°13'02.46"	77°17'48.88"	-	-	Mangliya 132	22°48'13.25"	75°54'55.83"	-	-
321	LILLO portion of Indore (SZ)220 - Mangliya Tap - Dewas (MSP)132 line for Raukhedi 132	0.29	48	8	Indore (SZ)220	22°39'43.02"	75°53'05.20"	Mangliya Tap	23°13'02.46"	77°17'48.88"	Raukhedi 132	22°50'01.62"	75°56'55.12"	-
322	Morena Tap - Morena	0.64	48	8	Morena Tap-M	26°28'57.62"	77°58'43.38"	-	-	Morena 132	26°28'57.62"	77°58'43.38"	-	-
323	LILLO of both ckt. Of 132KV Indore (SZ) - Pithampur line at Indore (SZ-II) (CAT) 2xDCDS (2x2x2)	2.00	48	8	Indore (SZ)	22°39'43.02"	75°53'05.20"	Pithampur	22°35'29.65"	75°35'46.50"	INDORE (S.Z.) 220	22°39'43.02"	75°53'05.20"	-
324	LILLO of both ckt of Bannore-Morena 132KV DCDS Line at Morena 220KV S/s (2x/D/C) (2x2x5)	4.00	48	8	Bannore 132	26°21'40.63"	78°05'26.05"	Morena	26°28'57.62"	77°58'43.38"	MORENA 220 (JADERUA)	26°26'23.74"	78°02'46.66"	-

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
325	Rampur Baghelan - Rewa 132 (Lilo TN 03 Rampur Baghelan to Gantry Rampur Baghelan)	0.36	48	8	Rampur Baghel	24°32'11.06"	81°04'52.76"	-	-	-	-	24°32'03.86"	81°15'38.59"
326	MACT132-E8 Arera Colony Bhopal	4.43	24	8	MACT132-E8	23°12'22.16"	77°24'06.77"	-	-	-	-	23°15'14.69"	77°26'17.11"
327	Jhulwania 400KV - Omkareswar HEP line	123.00	24	8	Jhulwania 400 Jabalpur (Sukha) 220	21°54'35.37"	75°15'08.93"	-	-	-	-	-	-
328	Jabalpur (Sukha) 220KV - Panagar 220KV D/C line	10.70	24	8	Panagar 220	23°12'03.53"	79°52'28.03"	-	-	-	-	23°15'39.19"	79°54'32.48"
329	Panagar 220KV - Birsinghpur TPS line	162.00	24	8	Panagar 220	23°15'39.19"	79°54'32.48"	-	-	-	-	23°21'00.78"	81°02'43.33"
330	Badnagar 220KV - Bilpank 132KV - Railam 220KV line	43.49	24	8	Badnagar 220	23°04'00.79"	75°21'52.94"	Bilpank 132KV	23°14'16.88"	75°05'50.04"	Railam 220	23°19'45.24"	75°04'01.99"
331	Indore (SZ) 220KV - Badwaha 220KV line	67.00	24	8	Indore (SZ) 220	22°39'43.02"	75°53'05.20"	-	-	-	-	22°14'57.88"	76°00'20.73"
332	Badwaha 220KV - Chhategaon 400KV line	42.28	24	8	Barwaha 220	22°14'57.88"	76°00'20.73"	-	-	-	-	21°55'44.30"	76°10'40.01"
333	Bilawar Chhatarpur line	30.00	24	8	Bilawar 132	24°39'18.05"	79°29'54.03"	-	-	-	-	24°53'12.41"	79°35'41.34"
334	Indore Chambal 132KV - Indore (NZ) 132KV - Indore-II 220KV - Ujjain 220KV line	54.10	24	8	Indore Chamba	22°44'16.51"	75°51'32.58"	Indore NZ	22°45'48.38"	75°50'57.10"	Ujjain 220	23°11'34.78"	75°50'35.45"
335	Keymore 132KV - Satna 132KV line	65.01	24	8	Keymore 132	24°02'44.95"	80°35'36.57"	-	-	-	-	24°34'19.52"	80°48'24.31"
336	Bairagarh 220KV - Kurawar - Shujalpur 220KV line	65.59	24	8	Bairagarh 220	23°19'11.37"	77°19'52.60"	Kurawar	23°31'27.91"	77°01'52.53"	Shujalpur 220	23°25'27.66"	76°42'43.23"
337	Dhar 220KV - Raigarh (D) 132KV line	41.21	24	8	Dhar 220	22°35'27.21"	75°19'55.69"	-	-	-	-	22°40'19.11"	74°57'48.28"
338	Sagar 220KV - Garhakota - Damoh 220KV line	68.63	24	8	Sagar 220	23°49'50.52"	78°50'32.86"	Garhakota	23°46'54.74"	79°06'58.88"	Damoh 220	23°47'16.60"	79°27'48.38"
339	Seoni - Chhindwara line	65.60	24	8	Seoni 220	22°08'25.35"	79°31'28.12"	-	-	-	-	22°01'23.74"	78°55'49.20"
340	Bina 220KV - Ganjbasoda 220KV (From Bina 220KV - Ganjbasoda LILO point of Sironji line to Ganjbasoda) line	60.76	24	8	Bina 220	24°10'32.12"	78°12'41.85"	Morena	26°28'57.62"	77°58'43.38"	GANJBASODA 220(132)	23°51'09.38"	77°54'18.82"
341	Keymore - Barhi 132KV DCSS line (1x32 792) line	33.00	24	8	Keymore 132	24°02'44.95"	80°35'36.57"	-	-	-	-	23°53'35.75"	80°47'04.32"
342	LILO Portion of Badnagar 220KV - Railam 220KV line for Bilpank	2.82	48	8	Badnagar 220	23°04'00.79"	75°21'52.94"	Railam 220	23°19'45.24"	75°04'01.99"	Bilpank 132	23°14'14.84"	75°05'46.38"
343	LILO Portion of Indore (SZ) 220KV - Badwaha 220KV line for Badwaha	0.89	48	8	Indore (SZ) 220	22°39'43.02"	75°53'05.20"	Badwaha 220	22°14'57.88"	76°00'20.73"	Badwaha 220	22°14'57.88"	76°00'20.73"
344	LILO Portion of Indore (SZ) 220KV - Badwaha 220KV line for Simrol	4.20	48	8	Indore (SZ) 220	22°39'43.02"	75°53'05.20"	Badwaha 220	22°14'57.88"	76°00'20.73"	Simrol 132	22°31'41.62"	75°53'04.04"
345	LILO Portion of Indore (SZ) 220KV - Chambal 132KV line for Indore Electronic Complex 132KV	0.40	48	8	Indore (SZ) 220	22°39'43.02"	75°53'05.20"	Chambal 132kV	22°44'16.51"	75°51'32.58"	ELECTRONIC COM. INDORE 132	22°45'05.31"	75°51'51.78"
346	LILO Portion of Indore (SZ) 220KV - Chambal 132KV line for Satyasai	0.40	48	8	Indore (SZ) 220	22°39'43.02"	75°53'05.20"	Chambal 132kV	22°44'16.51"	75°51'32.58"	SATYA SAI INDORE 132	22°44'59.75"	75°53'50.66"
347	Sanwer Tap - Sanwer 132KV line	1.53	48	8	Sanwer Tap	22°58'48.50"	75°50'14.05"	-	-	-	-	22°58'48.50"	75°50'14.05"
348	LILO Portion of Keymore 132KV - Satna 132KV line for Satna 220KV	7.48	48	8	Keymore 132	24°02'44.95"	80°35'36.57"	Satna 132	24°34'19.52"	80°48'24.31"	Satna 220	24°34'42.22"	80°43'25.74"
349	Khategaon Tap Point - Khategaon line	8.88	48	8	Khategaon Tap	22°34'14.11"	76°57'48.46"	-	-	-	-	22°34'14.11"	76°57'48.46"
350	LILO Portion of Bairagarh 220KV - Shujalpur line at Kurawar 132KV	16.45	48	8	Bairagarh 220	23°19'11.37"	77°19'52.60"	Shujalpur	23°25'27.66"	76°42'43.23"	Kurawar 132	23°31'24.55"	77°01'50.53"
351	LILO Portion of Sagar 220KV - Damoh 220KV for Garhakota	3.59	48	8	Sagar 220	23°49'50.52"	78°50'32.86"	Damoh 220	23°47'16.60"	79°27'48.38"	Garhakota 132	23°46'51.81"	79°06'57.01"

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						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
352	LILO Portion of 132KV Badwaha 220KV - Chhegaon 400KV for Sarnawad	3.02	48	8	22°14'57.88"	76°00'20.73"	Chhegaon 400	21°55'44.30"	76°10'40.01"	SANAWAD 132	22°11'23.88"	76°03'11.15"	
353	LILO Portion of 132KV Dhar 220KV - Rajgarh (D) 132KV for Rajgarh (D) 220KV	5.30	48	8	22°35'27.21"	75°19'55.69"	Rajgarh (D)	22°37'52.01"	74°57'58.51"	RAJGARH (DHAR INDORE) 220	22°37'52.01"	74°57'58.51"	
354	LILO Portion of 132KV Damoh 220KV - Jabalpur line for Tejgarh 132KV	2.60	48	8	23°47'16.60"	79°27'48.38"	Jabalpur	23°07'42.80"	79°53'26.50"	Tejgarh 132	23°33'55.82"	79°33'00.06"	
355	LILO of 132KV Jabalpur - Maneri at Gorabazar 220KV	7.00	48	8	23°07'42.80"	79°53'26.50"	Maneri	23°05'58.80"	80°12'58.57"	GORABAZAR 220	23°08'36.91"	79°58'07.82"	
356	400KV line at Balaghat/Kinapur 400KV S/S	6.00	48	8	-	-	Seoni (PG) 765KV	-	-	Kinapur 400	21°37'17.98"	80°21'03.30"	
357	LILO of 132KV Balaghat - Seoni/Katangi line at Waraseoni 132KV S/S (2xDC)(2x0.5+4x7)	14.50	48	8	21°48'18.41"	80°10'38.07"	Balaghat 132	21°48'01.72"	79°47'48.54"	Waraseoni 132	21°47'08.65"	80°02'08.22"	
358	220 KV Jabalpur Sukha DCDS line	12.51	24	8	23°12'17.85	79°89'11.87	220 KV Jabalpur	23°12'17.85	79°89'11.87	220 KV SUKHA	23°20'18.1	79°87'22.32	
359	132 KV Jabalpur Maneri line	23.34	24	8	23°12'17.85	79°89'11.87	220 KV Jabalpur	23°12'17.85	79°89'11.87	132 KV Maneri	23°08'19.95	80°21'53.82	
360	132 KV Chhindwara-Saoni line	31.05	48	8	22°02'86.62	78°97'90.72	132 KV CHINDWARA	21°59'56.49"	78°44'22.03"	S/S GANTRY H.P S.PENCH 3GO2	22°01'23.74"	78°55'49.20"	
361	132 KV Seoni-Pench line	76.55	24	8	22.102662	79.558423	132 KV Seoni	-	-	-	21.655597	79.236134	
362	220 kv Anik-Shahdol-Birsinghpur LILO line	5.60	48	8	23.160576	81.634934	220 KV AMARKANTAK	23°18'6.477"	81°3'51.319"	220 kv SHAHDOL	23.282156	81.381141	
363	132 KV Shahdol-Dindori line	61.71	24	8	23.28206	81.380478	132 KV Shahdol	-	-	132KV DINDORI	22.933654	81.123573	
364	132 KV Dindori-Gorakhpur line	49.74	24	8	22.933654	81.123573	132KV DINDORI	-	-	Gorakhpur	22°43'38.89"	81°31'26.26"	
365	132 kv Shahdol-Birsinghpur line	44.70	48	8	23.28206	81.380478	132 KV Shahdol	-	-	132 KV BIRSINGHPUR	23.351008	81.044062	
366	132KV Waidhan-VSTPP Line	11.16	24	8	24.11033457	82.63206134	132KV Waidhan	-	-	VSTPP	24.09309723	82.67535748	
367	132KV Sidhi-Mauganj Line	43.43	48	8	24.35664306	81.84186806	132KV Sidhi	-	-	132 KV Mauganj	24.6451779	81.90995998	
368	220 KV Damoh IC-II & III line	8.11	48	8	23.820945	79.400352	220 KV Damoh- PGCIL	-	-	220 KV Damoh	23.78904	79.463155	
369	220 KV Katni-Maihar line	61.00	24	8	23.877914	80.355237	220 KV Katni	-	-	220 KV Maihar	24.238974	80.745199	
370	132 KV Bijawar-Tikangarh line	20.67	24	8	24.654758	79.49874	132 KV Bijawar	-	-	220 KV Tikangarh	24.793594	78.83972	
371	132 KV -Mansakra s/s to loc no 153	15.90	24	8	23°29'15.11"	80°7'5.77"	133 kv mansakra	-	-	-	-	-	
372	220 kv Bhopal- IC	12.08	24	8	23.256265	77.437724	220 KV BHOPAL	-	-	400 KV BHOPAL SUKHI	23.348721	77.483618	
373	220 kv Bina-Bina-IC	9.02	24	8	24.174847	78.212456	220 KV BINA	-	-	400 KV BINA	24°12'34.459"	78°15'49.025"	
374	220 kv Bina- Shivpuri	170.36	24	8	24.174847	78.212456	220 KV BINA	-	-	220 KV SHIVPURI	25.479018	77.670739	
375	132 kv Mugallyachhap Bilksaganj	11.21	48	8	23.217119	77.295203	132 kv Mugallyachhap	-	-	132 KV Bilksaganj	23.115972	77.241957	
376	132 kv Rajgarh Khujner	27.97	48	8	23°48'06.28"	76° 35'42.08"	Khujner	-	-	Rajgarh	-	-	
377	132 kv Raisen LILO for Vidisha Gairatganj II	18.27	48	8	23°19'46.369"	77°48'24.301"	132 kv Raisen	23°24'7.332"	78°12'17.956"	LILO LOC-24	23°28'15.936"	77°52'39.641"	
378	132 kv Ganbasoda Gyaraspur	37.39	24	8	23.85338	77.904619	132 kv Ganbasoda	-	-	Gyaraspur	23.612794	77.995601	
379	132 kv Ashla Ichhwar	34.63	48	8	23.012434	77.026641	132 KV ICHHAWAR	-	-	400KV ASTHA	23°42'7.35"	76°42'3.84"	
380	132 kv Jeerapue Susner	12.06	48	8	23°59'59.82"	76°22'36.83"	Jeerapur	-	-	Susner	23°56'45.77"	76°06'18.08"	
381	132 kv Shyampur Pliukhedi	22.79	48	8	23.381861	77.189171	132 kv Shyampur	-	-	132 KV Pliukhedi	23.503392	77.054159	

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						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
382	220 Kv Bina- Shivpuri	170.30	24	8	220 KV BINA 24.174847 (78.212456)	78.167978	220 KV BINA	-	-	220 KV SHIVPURI	25.479018	77.670739	
383	132 Kv Malanpur- Morar	28.50	48	8	132 KV SS MORAR 26.255936	77.2614.305"	132 Kv Malanpur	-	-	132 Kv Malanpur	26.381249	78.301616	
384	132 Kv Shivpuri- Kolaras	34.90	48	8	132 Kv Shivpuri 26.1833.533"	77.0604.71"	132 Kv Kolaras	-	-	132 Kv Kolaras	26.1833.533"	77.3652.358"	
385	132 Kv Kolaras- Madha	20.29	48	8	132 Kv Kolaras 24.3748.91"	77.0604.71"	Madha	-	-	Madha	25.0600.12"	77.4827.46"	
386	132 Kv Bhorra- Kapasi	22.56	48	8	Bhorra 25.181555	78.194223	Kapasi	-	-	Kapasi	24.5224.77"	76.5746.63"	
387	132 Kv Gwalior- Pichhore Line (Loc. No. 400 to 422)	6.13	24	8	LOC-422 24.3748.82"	77.1639.88"	LOC-400	-	-	LOC-400	25.231417	78.193858	
388	132 Kv Guna- Bhorra DCDS line	25.51	48	8	Guna 25.4035.51"	76.4322.56"	Bhorra	-	-	Bhorra	24.4348.89"	77.0504.68"	
389	132 Kv Sheopur- Baroda	33.50	48	8	Sheopur 25.3946"	78.2656"	Baroda	-	-	Baroda	25.3126.35	76.306.50	
390	132 Kv Dalia- Bhitwarwar line	36.10	48	8	132 kv Dalia 25.47913264	77.66998814	BHITARWAR	-	-	BHITARWAR	25.4803"	78.0738"	
391	220 Kv Sabalgarh- Sheopur DCDS line	106.16	48	8	220 Kv Sabalgarh 21.5752.25"	76.4327.16"	220 KV Sheopur	-	-	220 KV Sheopur	26.25905334	77.43540016	
392	132 Kv Chhanera Khirkya	30.01	24	8	Chhanera 21.4931.69"	77.5258.69"	132 Kv Khirkya	-	-	132 Kv Khirkya	22.152516	76.871701	
393	132KV Betul Bisnoor DCSS	34.43	48	8	Betul 21.4931.69"	77.5258.69"	Bisnoor	-	-	Bisnoor	21.3554.90"	78.145.54"	
394	132KV Gudgaon LILO I	5.09	48	8	-	-	-	-	-	-	-	-	
395	132KV Gudgaon LILO II	4.73	48	8	-	-	-	-	-	-	-	-	
396	220KV Betul Gudgaon	46.77	48	8	Betul 21.4931.69"	77.5258.69"	Gudgaon	-	-	Gudgaon	21.3918.25	77.4245.11"	
397	400 kv Nagda-Indore line	108.00	24	8	-	-	-	-	-	-	-	-	
398	220 kv Indore - Pithampur Line	36.37	24	8	220 kv Indore 22.3944.476"	75.537.530"	Pithampur	-	-	Pithampur	22.3710.921"	75.4047.617"	
399	220 kv Indore - 400 kv Indore line	4.56	24	8	220 kv Indore 22.66129	75.885674	400 kv Indore	-	-	400 kv Indore	22.623155	75.890643	
400	220 kv Pithampur sector-3 to 400 kv Pithampur line	25.07	24	8	220 kv Pithampur 22.61	75.60	400 kv Pithampur	-	-	400 kv Pithampur	22.553662	75.548103	
401	220KV Barwaha - 400KV Chhegaon	41.15	24	8	220KV Barwaha 22.1457.691"	76.016.371"	400KV Chhegaon	-	-	400KV Chhegaon	21.5543.136"	76.1041.758"	
402	220KV LILO to 400KV Chhegaon (1-1)	2.33	24	8	LOC-1 22.119.166"	76.133.265"	LOC-11	-	-	LOC-11	22.1123.064"	76.39.258"	
403	220KV Chhegaon - 400KV Khandwa	38.63	24	8	-	-	-	-	-	-	-	-	
404	220KV Indore - Barwaha Line	45.14	24	8	220KV Indore 22.622068	75.890574	Barwaha	-	-	Barwaha	22.250414	76.004691	
405	220 Kv Jukaniya - Sandhwa line	35.34	48	8	22.590232	75.332222	Kanwan	-	-	Kanwan	22.786966	75.258471	
406	220 kv Dhar - Kanwan Line	32.00	48	8	220 kv Dhar 22.66237	75.885556	Chambal	-	-	Chambal	22.738907	75.859699	
407	132 kv siz Indore - Chambale line	18.93	24	8	132 kv siz Indore 21.4944.33"	76.1254.05"	Singot	-	-	Singot	21.4714.66"	76.4037.37"	
408	132KV Chhegaon - Singot Line	57.86	24	8	Chhegaon 22.113.32"	74.4530.50"	132 KV JOBAT	-	-	132 KV JOBAT	22.2441.62"	74.3548.58"	
409	132KV DCSS Kukshi - Jobat line	34.49	48	8	220 KV KUKSHI 21.4322.58"	75.0711.01"	Pansemlal	-	-	Pansemlal	21.3924.27"	74.4112.23"	
410	132 kv Sandhwa - Pansemlal	43.13	48	8	Sandhwa 21.4322.86"	75.0710.97"	Pansemlal	-	-	Pansemlal	21.039.24.76"	74.4112.19"	
411	132KV Sandhwa IC Line	11.91	48	8	Sandhwa 22.3536.34"	75.3548.59"	-	-	-	-	-	-	
412	132KV LILO Nairip Line	2.97	48	8	Nairip 21.4322.58"	75.0711.01"	Shanpura	-	-	Shanpura	21.2918.53"	74.1349.62"	
413	132KV LILO Jhmnva Line	25.77	48	8	Sandhwa 23.2547.855"	75.2656.128"	400 kv Indore	-	-	400 kv Indore	22.623155	75.890643	
414	132KV Sandhwa - Shanpura	41.28	48	8	23.5910.61"	76.4337.39"	400 KV Ujjain (Jaipur)	-	-	400 KV Ujjain (Jaipur)	23.1530.434"	75.549.068"	
415	400kv Nagda-Indore	52.04	24	8	400kv Nagda 23.2547.855"	75.2656.128"	400 kv Indore	-	-	400 kv Indore	22.623155	75.890643	
416	400kv Rajgarh SSP line	113.68	24	8	Rajgarh 23.2547.855"	75.2656.128"	400 KV Ujjain	-	-	400 KV Ujjain	23.1530.434"	75.549.068"	
417	400kv Nagda-Ujjain (Jaipur)	53.44	48	8	400kv Nagda 23.2547.855"	75.2656.128"	400 KV SITAMAU (MANDSAUR)	-	-	400 KV SITAMAU (MANDSAUR)	23.5955.04"	75.2130.25"	
418	400kv Nagda-Sitama (Mandsaur)	68.66	48	8	400kv Nagda 23.2547.855"	75.2656.128"	Neemuch	-	-	Neemuch	24.2830.52"	74.5300.87"	
419	220kv Nagda-Daloda-Neemuch line	134.50	24	8	400kv Nagda 23.2547.855"	75.2656.128"	Kanwan	-	-	Kanwan	22.4710.05"	75.1532.17"	
420	220kv Badnawar Kanwan	31.67	48	8	400 KV BADNAWAR 23.2880"	75.1238.47"	Ujjain	-	-	Ujjain	23.1137.60"	75.5043.27"	
421	220kv Ujjain Kota	174.79	24	8	Ujjain 23.1137.60"	75.5043.27"	-	-	-	-	-	-	

S.No.	Line / Link Name	Length (Kms)	Total No. of Fibers available	No. of Fibers available for lease in this RFP	POINT - A			LILO Point			POINT - B		
					Name of Substation	Coordinates		Name of Substation	Coordinates		Name of Substation	Coordinates	
						Latitude	Longitude		Latitude	Longitude		Latitude	Longitude
422	220kv LILO Daloda 2	6.22	48	8	220 KV DALODA	23°56'17.36"	75°5'55.07"						
423	220kv Nagra Nagda	39.98	24	8	220kv Nagra	23.343605	75.105112			400kv Nagda	23°25'47.855"	75°26'56.128"	
424	220kv Nagra Ratlam	5.13	24	8	220kv Nagra	23.343605	75.105112			220kv Ratlam	23.329555	75.069164	
425	220kv Badod LILO 2	3.89	48	8	Badod	23°49'30.85"	75°48'06.43"						
426	220kv Suwasra LILO 1& (MC)	4.38	48	8	220 KV SUWASRA	24°4'30.04"	75°39'45.32"						
427	220kv Nagra Sallana	33.32	48	8	220kv Nagra	23.343605	75.105112			220 KV Sallana	23.607955	74.993906	
428	220kv Neemuch Ratangarh	44.10	48	8	Neemuch	24°28'45.40"	75°53'12.24"			Ratangarh	24°47'23.31"	75°05'55.16"	
429	220kv Tap Gujarkeel from Badod Suwasra	10.10	48	8	Gujarkhedi	24°05'32.09"	75°47'39.78"			Suwasra	24°04'05.54"	75°40'08.54"	
430	220kv Jaora LILO	3.57	48	8	LILO	23.62692	75.070836			Badod	23°49'30.85"	75°48'06.43"	
431	220kv Ratlam Daloda	74.35	24	8	220kv Ratlam	23.329555	75.069164			220kv Jaora	23.616028	75.100428	
432	220kv Rajgarh IC line	12.31	24	8	220 KV RAJGARH	22°41'2.05"	74°55'21.52"			Daloda	23.936044	75.098613	
433	220kv Sitamau-Nipaniya	46.46	48	8	Sitamau	24°01'52.98"	75°20'47.68"			132 KV RAJGARH	22°40'20.20"	74°57'50.67"	
434	220kv LILO Sitamau 1 (From Daloda Neemuch at TP loc. no.211)	25.77	48	8	Sitamau	24°01'52.98"	75°20'47.68"			Nipaniya	24°12'49.77"	75°33'28.87"	
435	220kv LILO Sitamau 2 (From Daloda Neemuch at TP loc. no.228)	23.32	48	8	Sitamau	24°01'52.98"	75°20'47.68"				24°28'30.52"	74°53'00.87"	
436	132kv Alot Sitamau	43.07	48	8	132 KV SITAMAU	24°1'52.27"	75°20'50.31"				24°28'30.52"	74°53'00.87"	
437	132kv Gandhisagar Neemuch	88.62	24	8	Neemuch	24°28'6.65"	75°53'49.58"				24°54'15.55"	75°12'23.04"	
438	132kv Neemuch IC 1	4.19	24	8	Neemuch	24°28'6.65"	75°53'49.58"			Singoli			
439	132kv Sallana IC	18.72	48	8	132kv Sallana	23.462632	74.941047			220 KV SALLANA	23.606734	74.994373	
440	132kv Sallana Shivgarh	23.29	48	8	132kv Sallana	23°27'45.551"	74°56'28.774"			Shivgarh	23°20'39.045"	74°48'34.205"	
441	132kv Ratangarh Singoli	21.82	48	8	Ratangarh	24°47'33.14"	75°06'05.02"						
442	132kv Meghnagar Jhabua	25.87	48	8	Meghnagar	22°54'07.58"	74°32'42.41"						
443	132kv Rajgarh Jhabua	67.76	48	8	132kv Rajgarh	22°37'46.032"	74°57'56.055"						
444	132kv M Baddodiya Naikheda	28.39	48	8	Mombaddodiya	23°35'46.28"	76°21'01.53"			132 KV JHABUA	22°45'48.688"	74°36'6.385"	
445	132kv Suwasra IC	3.04	48	8	220 KV SUWASRA	24°4'30.04"	75°39'45.32"			Naikheda	23°49'55.29"	76°16'27.51"	
446	132kv LILO Bhanpura	14.50	48	8	SUWASRA	24°31'28.37"	75°49'16.14"			132 KV SUWASRA	24°4'30.17"	75°39'45.69"	
447	132kv LILO Rampura	7.26	48	8	Bhanpura	24°28'30.86"	75°20'02.65"						
448	Mandsaur Neemuch at TP loc. no.142	39.06	48	8	Mandsaur	24°05'08.94"	75°03'33.96"			Neemuch	24°28'06.65"	74°53'49.58"	
449	132kv LILO Sitamau 2 (From Mandsaur Neemuch at TP loc. no.154)	33.52	48	8	Mandsaur	24°05'08.94"	75°03'33.96"			Neemuch	24°28'06.65"	74°53'49.58"	
450	132kv Kanwan IC (Loc.no. 1-45)	13.35	48	8	Kanwan	22°52'30.81"	75°14'56.66"						