

**Tender Notification**  
**(Technical)**  
**for**  
**Horizontal Directional Drilling (HDD)**  
**Services for cable laying**  
**in**  
**Adani Electricity Mumbai Ltd**

**NIT no AEML/MDB/2019-20/08**

**Open Tender through E- Tendering**

**Adani Electricity Mumbai Ltd hereinafter referred as AEML** proposes Horizontal Directional Drilling Services in Mumbai distribution area. **AEML** hereby invites limited tenders' contractors for Horizontal Drilling services during laying of cables in Mumbai distribution area.

**1. Scope of work**

The scope of work includes services of Horizontal Directional drilling machine along with manpower to operate and execute the job as and when required in Mumbai distribution area. The scope shall be as detailed in the Bill of Quantities, check sheets and inspection formats etc in addition with scope of work document issued along with this tender document.

**2. Period of Completion**

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The work shall be completed in all respects before September 2020, in a manner and in accordance with the schedule decided by AEML.

### 3. Prequalification Criteria for bidder.

- a. Bidder shall be a regular contractor for the specified type of work possessing valid contractor license and having qualified staff. Bidder shall have at least 3 years past experience of similar job.
- b. Bidder shall have undertaken such works regularly, with adequate resources, technical knowledge & relevant experience.
- c. Bidder should have an adequate work capabilities and capacity to perform work properly and expeditiously within the time frame specified.
- d. Bidder shall be ready to work at any location of supply area of Mumbai distribution.
- e. Bidder shall not be blacklisted / debarred by any central/state government institution including electricity boards. The bidder shall also confirm and a self certified undertaking shall be submitted by him that there is no pending litigation with government on account of executing any other tender.

### 4. General Conditions:-

- a. The bidders shall examine carefully the accompanying tender documents and obtain all the information including site conditions if require at his own cost, prior to submission of his tender.
- b. In case of any loss or damage to the property of consumer or third party the responsibility lies with the contractor.
- c. The Bidder shall refer Job Scope for details of Horizontal Drilling and strictly adhere to the same. Any deviation in the same shall be conveyed and approved by AEML.
- d. The bidder is required, at his expense, to procure necessary material, tools, instruments, PPEs, labour, etc., as per the requirements of the local/government/public authorities.
- e. The Client reserves the right to reject any or all the tenders without assigning any reason and does not bind him self to accept the lowest or any tender.
- f. A schedule of approximate quantities for various items accompanies this tender. Quantities is liable to alteration by omissions, deductions, or additions at the discretion of the Client without

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affecting the terms of Contract. The bidders shall keep themselves updated by regularly visiting the E Procurement website of AEML for any amendment/corrigendum/ clarification in regard to this Tender.

- g. The Bidders are advised to submit the offer based strictly on the Terms and Conditions and specifications contained in the tender documents including amendments, if any, issued by Client prior to submission of offer.
- h. Bidders shall have a capacity to work in at multiple locations simultaneously without affecting the timeline/schedule of the project. However, the Client / Engineer-in-Charge, reserve the right to split and award the Contract in two or more contractors if require.
- i. The bidder, whose tender is accepted, shall be called as "The Contractor".

#### 5. Qualifying Requirements (QR) for bidders:

- a. *Brief History* : Bidder shall be have past history of work in similar job.
- b. *Experience* : Bidder shall have at least 3 years of experience of similar job, as defined in the scope of work document.
- c. *Turnover*: Average annual financial turnover should be at least 100% of the estimated cost of the works, during the immediate last 3 consecutive financial year. Net worth of the company / firm as on 31st March of previous Financial Year should be positive
- d. *Qualified Staff*: Bidder shall have qualified staff for the said work.
- e. *Tools & Tackles and Instruments*: Bidder shall have sufficient number of standard tools & tackles and instruments require for Horizontal Drilling work, confirming relevant IS standards and the instruments shall be duly calibrated by NABL accredited lab wherever require.
- f. *Relevant licenses & certificates*: Bidder shall possess relevant license and all other relevant certificates as required by various statutory bodies.
- g. *Confirmation to Scope of work, specifications and Quality assurance plan (QAP)*:- Bidder shall give confirmation to adhere to the scope of work, specifications and Quality assurance plan (QAP) for the said work.

#### 6. Submission of Offer:

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- a. Only those tenders fully completed together with all the documents and received by the time and date specified will be considered.
- b. The Bidder shall affix his seal and signature / signature of his authorized signatory on each and every page of the tender document and other submittals made by him before submission.
- c. The bidder is required to submit satisfactory evidence of his experience, eligibility and other qualifying requirements as mentioned above.
- d. The bidder is required to submit the undertaking as mentioned in Annexure IV.
- e. The Client reserves the right to reject any tender or all tenders/ bids without assigning reason and does not bind himself to accept the lowest or any tender.
- f. In the event of any discrepancy between the details and or description given in the bill of quantities, the drawings, and the technical specifications, then the item shall be deemed to have been priced in accordance with the details and / or description given in the following order of precedence:
  - i. Work Order
  - ii. Bill of quantities
  - iii. Technical specifications
- g. In all the cases, it is understood that the details and/or description not specifically mentioned in the Bill of quantities shall be the same as those mentioned in the technical specifications / scope document.

In the absence of specification in the tender document, Indian Standard Code of practices together with their latest revisions / amendments as applicable shall be followed.

In the absence of relevant I S Code of practice also, the instructions of the Engineer In-charge shall be followed. In case of any contradiction / conflict between the specifications, the interpretation of Client's Engineer In-Charge shall be final and binding.

Any further interpretation of the above clause shall be at the discretion of the Client/ Engineer in Charge whose decision shall be final and binding to the Contractor.
- h. Bidder shall furnish the following along with the Tender in addition to undertakings / self certification mentioned above in the tender document: -
  - i. Technical information
  - ii. Organization Chart of the Bidder's Company.

- iii. Brief resumes of key personnel, powers and duties vested with each personnel proposed to be deployed on the work.
  - iv. List of Tools & tackles with the name of manufacturers and calibration certificate of instruments proposed to be deployed for the work.
  - v. Experience details with credentials.
  - vi. Proposed Site Organization Chart with Designation of the employees,
  - vii. Manpower deployment schedule to execute the job.
  - viii. Methodology of working.
- i. All the pages of the offer, including the annexure shall be stamped & signed by the authorized signatory. Insertion, postscript addition and alteration shall not be recognized.

#### **7. Annexure**

- I. Scope Document
- II. Check List
- III. Bill of Quantity
- IV. Execution Schedule
- V. Self declaration format

## Annexure I : Scope of Work Horizontal Directional Drilling

### 1. Intent of Work:

Horizontal Drilling is used in AEML distribution Area for cable laying where there is road crossing, Railway crossing, Highway crossing ,water way crossing and in congested areas.

Horizontal drilling provides less traffic disruption. Existing infrastructure left relatively undisturbed because of horizontal drilling. It reduces restoration cost and it has shorter completion time.

### 2. Scope of Work:

Scope involved for Horizontal Drilling is as follows.

Sr. No.	Description	Activity	Responsibility
1	Identification of Site	Identify the site where cable to be laid by HDD	AEML
2	Inspection of Site	Vendor should inspect the site for feasibility check along with AEML person within 24 Hrs of communication from AEML side.	AEML/Vendor
3	Permissions of local bodies	To obtain permission from local bodies to carry out the HDD work. To obtain permission to excavate trial pits from local body	AEML
4	GPRS Survey	GPRS survey of the route to be carried out on USER INSTRUCTIONS	Vendor
4	Coordination with other utilities	To coordinate with other utilities during HDD work	Vendor

4	Minimum Length for HDD	<b>Vendor will provide HDD facility for min. length of 30 mtrs. . HDD hiring charges will be purely based on per meter of cable laying and pulling.</b>	Vendor
5	Excavation of trial pits	Excavation of pits at entry and exit points as well as any other locations if required	Vendor
6	Horizontal Drilling machine, manpower and all other tools and tackles	Provision of HDD machine, skilled manpower, supervisor and other required tools and tackles.	Vendor
7	Transportation of Horizontal Drilling machine, manpower and all other tools and tackles	To transport Horizontal Drilling machine, manpower and all other tools and tackles from one location to other. Provision of fuel and engine oil.	Vendor
8	Electricity and water supply	Provision of electricity and water supply during HDD	Vendor
9	Refilling of evacuated pits	To refill evacuated pits after horizontal drilling is completed	Vendor
10	Co-ordination	Co-ordination with AEML division office for carrying out the work.	Vendor
11	Safety Regulations	List of all authorized person who will carry out work to be submitted to division office.	Vendor
		Authorized persons shall be qualified for doing such work.	



		Person shall carry Identify card issued by vendor while working.	
		Vendor shall provide Personal Protective Equipment (PPE) to person while working.	
		All Workers to be insured for Group Insurance under Personal Accident Insurance Policy.	
		Vendor shall follow Work Permit method inside Sub Station / Receiving Station.	
12	Work Permit	If required, obtaining necessary work permits.	AEML
13	Terms and Conditions	Service reports for each and every site should be duly signed jointly by vendor representative and Officer In charge of AEML.  Follow up EMS policy and safety rules and regulation during work execution. <b>Vendor should produce noise level certificate for Horizontal Drilling m/c through MPCB authorized lab and should be within stipulated limit.</b>	
14	Work Completion	Work completion certificate (Check Sheet Annexure I – (A))	AEML

15. Vendor will make alternate arrangement in case of breakdown of HDD machine during it's running condition.

16. Breakdown of HDD machine on site will be in Vendor's scope.

17. Any damages caused due to HDD to nearby utilities will be in Vendor's scope.

**Check list for Horizontal Directional Drilling (Annexure -1)**

Service Entry No.	
Service Entry Date	
Division	
Client Name	
Contract Order No.	
Vendor Name & No.	
Work Description	
Location & Unit	
GPRS Route Survey Done in Meters	
Cable laid vide HDD – Soil (Qty in MTR) (A)	
Cable laid vide HDD – Rock (Qty in MTR) (B)	
Manual Cable laid (Qty in MTR) (C)	
Total Cable laid (Qty in MTR) (A) + (B) + (C)	
Remarks if any	

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|---|--|--------|
| 1 | Quality norms checked –  | YES/NO |
| 2 | Joint Measurements taken by AEML Engineer – in – Charge<br>& Vendor’s authorized person for site   | YES/NO |
| 3 | Bill to be raised by the Vendor on its letter head after completion of Measurements<br>as per Work order/Agreement rates.                        | YES/NO |
| 4 | Measurement sheets on basis of joint measurements prepared by vendor &<br>Certified by Engineer – in – charge & Vendor enclosed with the Invoice | YES/NO |
| 5 | Certification by the Head of the Department  | YES/NO |
| 6 | Cables laid totally  | YES/NO |
| 7 | Cable Route drawing enclosed   | YES/NO |

	Prepared By	Reviewed By	Approved By
Signature			
Name			
Designation			
Pay Roll No.			



### Annexure III : BOQ for Horizontal Directional Drilling

Item	Service Description	UOM	Approx Qty
10	Horizontal Drilling		
A	GPRS Survey of the route	RMT	7500
B	HDD suitable for 6" HDPE Pipe - Soil	RMT	5700
C	HDD suitable for 8" HDPE Pipe - Soil	RMT	500
D	HDD suitable for 10" HDPE Pipe - Soil	RMT	500
E	Horizontal Diagonal Drilling through <b>Rock</b>	RMT	800
F	Cable Pulling	RMT	7500
G	HDPE welding - Per Joint	No's	75
H	HDPE Pipe Pulling (8")	RMT	450

### Annexure IV Execution Schedule

All works shall be completed before September 2020 or as per the schedule communicated by client after award of contract. Painting shall not be done in rainy season.



### Annexure V Self Declaration

Date:-

Name of Company:-

Name of contact person:-

Registered E-mail Id:-

Type of Services:-

I/ We \_\_\_\_\_ hereby confirm that we have clearly understood the scope of work and technical details related to the above mentioned job & submitted the signed and stamped copy of the same.

Further we hereby submit following information for review,

Yes NO

	Yes	NO
Annexure 1:- History		
Annexure 2:- Past Experience of similar job		
Annexure 3:- Past Experience of similar job in AEML		
Annexure 4: Turnover for last 3-years		
Annexure 5:- Qualified Staff list		
Annexure 6:- Relevant Licenses/ Certificates		
Annexure 7:-Any other (Please specify)		

Signed by

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Name (Authorized Signatory)

Designation

Company Seal