



**Ministry of Road Transport & Highways,
(Govt. of India)**

National Competitive Proposal
(Through CPP Portal, E-Tendering Mode)

For

**Name of work: Shifting of Water Supply Pipelines under PHE City Division
No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of
NH-144 A in the UT of Jammu & Kashmir.**

October, 2021

National Highways & Infrastructure Development Corporation Ltd
3rd floor, PTI Building, 4-Parliament Street,
New Delhi – 110001

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SECTION-I

**NOTICE INVITING PROPOSAL
(E-TENDERING MODE ONLY)**

राष्ट्रीयराजमार्गएवंअवसंरचनाविकासनिगमलिमिटेड

National Highways & Infrastructure Development Corporation Limited

MINISTRY OF ROAD TRANSPORT & HIGHWAYS,
GOVT. OF INDIA

Notice Inviting Tender

(Online e-tender through Central Public Procurement Portal)

No: **NHIDCL/RO(JMU)/J-A(Pkg-III)/ UtilityShifting/PHE/2021-22**

05.10.2021

RFP for the work of **Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.**

The Ministry of Road Transport & Highways through National Highways & Infrastructure Development Corporation Limited (NHIDCL) is engaged in the development of National Highways and as part of this endeavor, it has been decided to undertake “**Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.**”

The National Highways & Infrastructure Development Corporation Limited represented by its Managing Director now invites bids from eligible contractors for the following project:

State/UT	Description of the work	Locations	Estimated Cost excluding GST (Rs. in Crore)	Completion period
Jammu & Kashmir	“Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.”.	Km 6.000 to km 26.350	11.14	03 months

The complete BID document can be viewed/downloaded from official portal of the CPPP website <https://eprocure.gov.in/eprocure/app> from 05.10.2021 to 21.10.2021 (upto 1200 Hrs IST). Bidder must submit its Financial bid and Technical Bid at <https://eprocure.gov.in/eprocure/app> on or before 21.10.2021 (upto 1100 Hrs IST). Bids received online shall be opened on 22.10.2021 (at 1130 Hrs IST).

5 **Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.**

Bid through any other mode shall not be entertained. However, Bid Security, Document fee, Power of Attorney etc. shall be submitted physically by the Bidder before the issuance of LOA mentioned in appendix to ITB. Please note that the NHIDCL reserves the right to accept or reject all or any of the BIDs without assigning any reason whatsoever.

Cost of Bid Documents: Rs. 10000/- +18% GST through NEFT/RTGS/IMPS to NHIDCL's account given below. (Non-Refundable).

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited
2	Beneficiary Bank Account No.	76411010002171
3	Beneficiary Bank Branch	IFSC SYNB0007641
4	Beneficiary Bank Branch Name	Syndicate Bank, Channi-Himmat
5	Beneficiary Bank Address	Syndicate Bank, Channi-Himmat, Jammu, J&K, 180015

The Bidder must upload Copy of the online payment receipt (UTR/ Reference No. /Transaction ID) towards payment of cost of Bid document.

1. The participate in bidding process, bidder have to get (DSC) "Digital Signature Certificate" as per Information Technology Act-2000, to participate in online bidding. This certificate will be required for digitally signing the bid. Bidder can get above mentioned digital certificate from any approved vendors. The Bidder, who already possess valid (DSC)"Digital Signature Certificate" need not to procure new Digital Signature Certificate.
2. The bidders have to submit their bids online in electronic format with Digital Signature. The bid cannot be uploaded without Digital Signature. No proposal will be accepted in physical form.
3. Bids will be opened online as per time schedule mentioned at S. No. 11.
4. Before submission of online bids, bidder must ensure that scanned copy of all the necessary documents have been attached with bid.
5. The department will not be responsible for delay in online submission of bids whatsoever reasons may be.
6. All the required information for bid must be filled and submitted online.
7. Bidders should get ready with the scanned copies of cost of documents & EMD as specified in the tender documents. The original instruments in respect of EMD and relevant documents will be submitted to the Tenders Inviting Authority by Registered post/courier/by hand before the issuance of LOA.
8. The details of cost of documents, EMD/ Bid Security specified in the tender documents should be the same, as submitted online (Scanned copies) otherwise bid will not be accepted.

6 **Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.**

9. Bidders can contact the undersigned for any guidance for getting DSC or any other relevant details in respect of e-tendering process.
10. The guidelines for submission of bid online can be downloaded from the website www.nhidcl.com & <https://eprocure.gov.in>.

11. Schedule of Bidding Process

The Company shall endeavor to adhere to the following schedule:

<i>S. No</i>	<i>Description</i>	<i>Period</i>
1.	Date of issue of NIT	05.10.2021
2.	Date of issue of Sale of Tender Documents	05.10.2021
3.	Date of receipt of pre-bid queries	05.10.2021
4.	Date of Pre-Bid meeting at RO Jammu	13.10.2021 (at 15:00 Hrs)
5.	Date of uploading of reply to the pre-bid queries	14.10.2021
6.	Date of close of sale of Tender Documents (through online)	21.10.2021 (upto 1200 Hrs)
7.	Date of submission of Tender/Bid (online)	21.10.2021 (upto 1200 Hrs)
8.	Date of opening of Technical bid (online)	22.10.2021
8.	Date of Uploading of list of Technically Qualified Applicants	Will be notified later
9.	Date of Opening of Financial Bids of Qualified Applicants	
10.	Date of issue of letter of award (LOA)	
11.	Validity of Bid	120 Days

For any clarification, the following office may be contacted:

(Mr. Riten Kumar Singh)
Executive Director (Projects)
Email Id:rojammunhidcl@gmail.com
Mobile: 9810137141
National Highways& Infrastructure Development Corporation Ltd.
Regional Office, Jammu,
House no. 261, Sector -06, Channi- Himmat, Jammu, 180015.



(SECTION-II)

INSTRUCTION TO BIDDERS& APPENDIX TO BID

Section II: Instructions to Bidders

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Section -II

Instructions to Bidders (ITB)

A. General

1. Scope of Bid

- 1.1 The Employer (as defined in the Appendix to ITB) invites bids for “as described in these documents and referred to as “the works”. The name and identification number of the works is provided in the Appendix to ITB.
- 1.2 The successful Bidder will be expected to complete the Works by the intended Completion Date specified in the Contract Data (Part I General Conditions of Contract).
- 1.3 Throughout these bidding documents, the terms “bid” and “tender” and their derivatives (bidder/tenderer, bid/tender, bidding/tendering, etc.) are synonymous.

2. Source of Funds

- 2.1 The expenditure on this project will be provided by MoRT&H to the National Highways & Infrastructure Development Corporation Limited (NHIDCL).

3. Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders as defined in the Appendix to ITB.
- 3.2 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices by the Central Government, the State Government or any public undertaking, autonomous body, authority by whatever name called under the Central or the State Government.

4. Qualification of the Bidder

- 4.1 The bid is open to person/entity from India only and entity/firm/company having any share of the person resident outside India or is controlled by person’s resident outside India, is not eligible for the bid.
- 4.2 All bidders shall include the following information and documents with their bids in Section-3, Qualification Information unless otherwise stated in the Appendix to ITB:
 - a) Scanned copy of original documents defining the constitution or legal status, ownership details, place of registration, and principal place of business; written power of attorney of the signatory of the Bid to commit the Bidder;
 - b) Total monetary value of civil engineering electrical utility shifting/laying works performed for each of the last three years;
 - c) Scanned copy of Experience certificate in works of a similar nature and size for each of the last five years with certificates from the concerned officer of the minimum rank of Executive Engineer or equivalent;

- d) Scanned copy of certificate from Chartered Accountant as a proof of turnover for the past three years; (as per format enclosed Annexure-B)
- e) Scanned copy of certificate from Chartered Accountant as a proof of Net Worth for the latest audited financial year;(as per format enclosed Annexure-A)
- f) Scanned copy of Information regarding any litigation or arbitration during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter;
- g) Scanned copy of the affidavit on the Stamp Paper, duly attested from the Notary Public, that the information furnished with the bid documents is correct in all respects.
- h) Scanned copy of Undertakings as mentioned in Section III Cl.2.
- i) Any other information/documents required to be completed and submitted by bidders, as specified in the Appendix to ITB & Section III, and to be uploaded by bidder on e-tender portal
- j) Proof of online payment towards Cost of Documents i.e. receipts with transaction details.
- k) Proof of submission of DD/BG towards Bid Security/EMD.

4.3 Bids from joint venture are not allowed.

4.4 A. To qualify for award of the contract, each bidder in its name should have the following; -

- a) ***achieved an average annual financial turnover equivalent to 40% of estimated cost mentioned in NIT during last three year ending 31st March of the previous financial years duly certified by Chartered Accountant and shall have a minimum Net Worth of 5% (five percent) of the Estimated Cost at the close of the preceding financial year***
- b) Satisfactorily completed (not less than 90% of contract value), as a prime contractor (or as a nominated subcontractor duly approved by Employer, provided further that all other qualification criteria are satisfied) similar works during last five years ending last day of month previous to the one in which bids are invited should be either of the following:
 - i. One similar completed work** costing not less than amount equals to **80% of estimated cost mentioned in NIT.**
 - or**
 - ii. Two similar completed works** costing not less than amount equals to **60% of estimated cost mentioned in NIT.**
 - or**
 - iii. Three similar completed works** costing not less than amount equals to **40% of estimated cost mentioned in NIT.**

(**The “similar work”: means shifting/laying of Water Supply Pipelines)

(Escalation factor as specified below shall be used to bring the value of such completed works at the level of financial year i.e.2020-21)

Year before	Multiplying Factor
Current Year (2020-21)	1.00
One(1) (2019-20)	1.00
Two(2) (2018-19)	1.05
Three(3) (2017-18)	1.10
Four(4) (2016-17)	1.15
Five(5) (2015-16)	1.20

4.4 B. Each bidder must produce:

- (i) An affidavit on a Stamp Paper, duly attested from the Notary Public, that the information furnished with the bid documents is correct in all respects; and
- (ii) Such other certificates as defined in the Appendix to ITB.
- (iii) Failure to submit the certificates/documents as specified above or in Appendix to ITB shall make the bid **non-responsive**.

4.5 Sub-Contractors' experience and resources shall not be taken into account in determining the bidder's compliance with the qualifying criteria, however, the bidder may nominate one sub-contractor having experience in shifting/laying of utility of water supply pipelines upto 50% of the Contract Price.

4.6 Bidder who meets the minimum qualification criteria will be qualified only if their available bid capacity is equal to the total estimated cost as mentioned in NIT. The available bid capacity will be calculated as under:

Assessed available Bid capacity = (A*2.5-B)

Where,

A= Maximum value of civil engineering works executed in any one year during the last five years (updated to the price level of the year indicated in Appendix) taking into account the completed as well as works in progress.

B= Value (updated to the price level of the year indicated in table below under note) of existing commitments, works **for which Appointed Date/Commencement Date has been declared or on-going works** to be completed during the period of completion of the works for which bid is invited. For the Sake of clarification, it is mentioned that works for which LOA has been issued but Appointed Date/Commencement Date not declared as on Bid Due Date shall not be considered while calculating value of B.

*Note: The Statement showing the value of all existing commitments, works **for which Appointed Date/Commencement Date has been declared or on-going works** as well as the stipulated period of completion remaining for each of the works listed should certified from the bidder. For any wrong certificate the bidders shall be debarred for a period of 2 years--- The factors for updation of the value of civil engineering works to the price level of the year are indicated as under:*

Year	Year-1	Year-2	Year-3	Year-4	Year-5
Updation factor	1.00	1.05	1.10	1.15	1.20

- 4.7 Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:
- (i) made misleading or false representations in the forms, statements, affidavits and attachments submitted in proof of the qualification requirements; and/or
 - (ii) Record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc. or debaring by Government agencies.
 - (iii) Tampered the bid document in any manner.

5. Deleted

6. Cost of Bidding

- 6.1 The Bidder shall bear all costs associated with the preparation and submission of his Bid, and the Employer will, in no case, be responsible or liable for those costs.

7. Site Visit and Site Location

- 7.1 The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarise himself with the Site of Works and its surroundings including source of earth, water, road aggregates etc. and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense. He may contact the person whose contact details are given in the Appendix to ITB.
- 7.2 The district-wise site locations for shifting of water supply pipelines are given below:

S. No.	State/UT	District	Chainage
1.	Jammu & Kashmir	Jammu	Km 6.000 to km 26.350

B. Bidding Documents

8. Content of Bidding Documents

- 8.1 The set of bidding documents comprises the documents listed below and addenda issued in accordance with Clause 10:

Volume- I:-

- i. Notice Inviting Proposal
- ii. Instructions to Bidders & Appendix to Bid
- iii. Qualification Information

- iv. Forms of Bank Guarantee, Agreement & LOA
- v. Conditions of Contract & Contract Data
- vi. Scope of work, Technical specifications and drawings
- vii. Defect liability and Annual Maintenance

Volume - II:-

Bill of Quantities

Bidder is required to quote a single percentage above/below the overall estimated cost. This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work.

- 8.2 The bidder is expected to examine and access the site locations and include all transportation and miscellaneous cost while quoting the bid.
- 8.3 The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, and specifications, bill of quantities, forms and drawings in the Bid Document. Failure to comply with the requirements of Bid Documents shall be at the bidder's own risk. Pursuant to clause 26 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be **rejected**.

9. Clarification of Bidding Documents

- 9.1 A prospective Bidder requiring any clarification on the bid document may notify the Employer in writing or by e-mail (scanned copy) at the Employer's address indicated in the Notice Inviting Tender. The Employer will respond to any request for clarification received earlier than 10 days prior to the deadline for submission of bids. Copies of the Employer's response will be hosted on website or which are required in the opinion of the Employer including a description of the enquiry, but without identifying its source.

10. Amendment of Bidding Documents

- 10.1 Before the deadline for submission of bids, the Employer may modify the bidding documents by issuing addenda.
- 10.2 Any addendum thus issued shall be part of the bidding documents and shall be hosted on the NHIDCL website/e-procurement portal only.
- 10.3 To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 20.2.

C. Preparation of Bids

11. Language of Bid

11.1 All documents relating to the Bid shall be in the language specified in the Appendix to ITB.

12. Documents Comprising the Bid

12.1 The e-bid submitted by the bidder shall be in two separate parts. Part-I This shall be named Technical Bid and shall comprise of information submitted online as per Cl. 4.2 in Sec-II. Part-II It shall be named Financial Bid and shall comprise of (i) Priced bill of quantities.

12.2 Documents comprising Technical and Financial BID

The Bidder shall first upload all the project details, net worth details, turnover details, bridge and tunnel details and all other details required in this RFP for technical qualification. The Bidder shall ensure that all the details are updated as on the due date of submission of this bid.

The Bidder shall then apply for the RFP on the CPPP website <https://eprocure.gov.in/eprocure/app> by submitting the documents mentioned below along with the supporting documents which shall comprise of the Technical BID on the CPPP portal :

Technical Bid

- (a) Power of Attorney of the signatory of the bidder to commit BID;
- (b) Copy of online receipt towards payment of Bid Security/EMD of required amount;
- (c) Copy of online receipt towards payment of cost of Bid document of required amount;
- (d) Affidavit duly notarized and undertakings as per Section III;
- (e) Annual financial turnover during last three years ending 31st March of the previous financial year duly certified by Chartered Accountant. (as per Format Annexure-B);
- (f) Net worth certificate duly certified by Chartered Accountant. (as per Format Annexure-A);

Financial Bid

- (g) To be submitted online on GoI e-tendering portal (<https://eprocure.gov.in/cppp>) on or before Schedule time given in Data Sheet.

12.2.2 The Bidder shall submit the following documents physically by date and time given in Appendix to ITB:

- (a) Original Power of Attorney of the signatory of the bidder to commit BID;
- (b) Copy of online receipt towards payment of Bid Security/EMD of required amount;
- (c) Copy of online receipt towards payment of cost of Bid document of required amount;
- (d) Original Affidavit duly notarized and undertakings as per Section III;

(e) Annual financial turnover during last three years ending 31st March of the previous financial year duly certified by Chartered Accountant. (as per Format Annexure-B);

(f) Net worth certificate duly certified by Chartered Accountant. (as per Format Annexure-A);

12.2.3 The documents listed at clause 12.2.2 shall be placed in an envelope, which shall be sealed. The envelope shall clearly bear the identification “BID for (Name of the Project)” and shall clearly indicate the name and address of the Bidder. In addition, the BID Due Date should be indicated on the right hand top corner of the envelope.

12.2.4 The envelope shall be addressed to the officer designated whose Name and Address is given in the Bid document.

12.2.5 If the envelope is not sealed and marked as instructed above, the Authority assumes no responsibility for the misplacement or premature opening of the contents of the BID submitted and consequent losses, if any, suffered by the Bidder.

12.2.6 BIDs submitted by fax, telex, telegram or e-mail shall not be entertained and shall be summarily rejected.

12.3 The following documents, which are not submitted with the bid, will be deemed to be part of the bid.

Section	Particulars
1	Notice Inviting Proposal
2	Instruction to the bidders
3	Conditions of Contract
4	Contract Data
5	Scope of work, Technical specifications and drawings
6	Defect liability and Annual Maintenance

13. Bid Prices

13.1 The Contract shall be for the whole Works, as described in Clause 1.1 based on the priced Bill of Quantities submitted by the Bidder.

13.2 **The bidder shall quote bid prices on appropriate format enclosed as part of tender document on <https://eprocure.gov.in/eprocure/app>. The Bidder is required to quote a single percentage above/below the overall estimated amount. This percentage would be applicable for all the items of work in the contract for working out the rates for each item of work.**

13.3 The bidder is required to quote a single percentage above/ below the estimated amount (including GST). The contractor has to submit the proof of GST payment to government before next bill. In case, of non submission of GST proof, the same will be recovered in the next bill.

13.4 Based on the percentage quoted, the rates and prices shall be fixed for the duration of the Contract and shall not be subject to adjustment.

14. Currencies of Bid and Payment

14.1 The price shall be quoted by the bidder entirely in Indian Rupees. All payments shall be made in Indian Rupees.

15. Bid Validity & Bid Document Cost

15.1 Bids shall remain valid for a period of **120 days** after the deadline date for bid submission specified in Clause 20.

15.2 In exceptional circumstances, prior to expiry of the original time limit, the Employer may request that the bidders may extend the period of validity for a specified additional period. The request and the bidders' responses shall be made in writing or by e-mail. A bidder may refuse the request without forfeiting his bid security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his bid security for a period of the extension, and in compliance with Clause 16 in all respects.

15.3 The Bidder must upload Copy of the online payment receipt (UTR/ Reference No. /Transaction ID) towards payment of cost of Bid document.

15.4 Any bid not accompanied by Bid document fee/cost, shall be rejected by the Employer as **non-responsive**.

16. Bid Security

16.1 The Bidder shall furnish, as part of the Bid, Earnest Money/Bid Security, in the amount as specified in the NIT. (Bank guarantee/ demand draft must be in favour of National Highways & Infrastructure Development Corporation Ltd.

16.2 **The Earnest Money/ Bid Security shall, at the Bidder's option, be in the form of Bank Guarantee/Demand Draft only (the other form will not be acceptable) of any scheduled commercial bank approved by RBI having a net worth of not less than Rs. 500 crore** as per the latest annual report of the bank must be in the name of Employer. In case of foreign bank (issued by a branch in India) the net worth in respect of the Indian operations shall only be taken into account. It shall be valid for 45 days beyond the validity of the bid. **Any bid having bid security for lesser value and shorter validity period shall be treated as non-responsive.**

A. Bank Guarantee or Demand Draft receipts, in the name of the Employer, from following banks would be accepted:-

16.3

- i. State Bank of India or its subsidiaries,
- ii. Any Indian Nationalized Bank
- iii. IDBI / ICICI Bank
- iv. **A Foreign Bank (issued by a branch outside India) with a counter guarantee from SBI or**



its subsidiaries or any Indian Nationalized Bank.

- v. Any Scheduled Commercial Bank approved by RBI having a net worth of not less than Rs. 500 Crores as per the latest Annual Report of the Bank. In the case of a Foreign Bank (issued by a branch in India), the net worth in respect of the Indian operations shall only be taken into account.

In addition to above, NHIDCL, vide office order no. NHIDCL/F&A-25/2019-20/E-182855 dated 02.08.2021, had issued a list of bankers whose bank guarantees shall be accepted (List as given below). No bank guarantees shall be accepted, if issued by any bank not included in the following list:

List of Scheduled Public Sectors Banks	
S No.	Name of Bank
1	Bank of Baroda
2	Bank of India
3	Bank of Maharashtra
4	Canara Bank
5	Central Bank of India
6	Indian Bank
7	Indian Overseas Bank
8	Punjab and Sindh Bank
9	Punjab National Bank
10	State Bank of India
11	UCO Bank
12	Union Bank of India
List of Scheduled Private Sectors Banks	
S No.	Name of Bank
1	Axis Bank Ltd.
2	Bandhan Bank Ltd.
3	CSB Bank Ltd.
4	City Union Bank Ltd.
5	DCB Bank Ltd.
6	Federal Bank Ltd.
7	HDFC Bank Ltd.
8	ICICI Bank Ltd.
9	Indusland Bank Ltd.
10	IDFC First Bank Ltd.
11	Jammu and Kashmir Bank Ltd.
12	Karnataka Bank Ltd.
13	Karur Vysya Bank Ltd.
14	Kotak Mahindra Bank Ltd.

15	Lakshmi Vilas Bank Ltd.
16	RBL Bank Ltd.
17	South Indian Bank Ltd.
18	Tamilnad Mercantile Bank Ltd.
19	YES Bank Ltd.
20	IDBI Bank Ltd.
List of Scheduled Small Finance Banks	
S No.	Name of Bank
1	Au Small Finance Bank Limited.
2	Equitas Small Finance Bank Limited
3	Suryoday Small Finance Bank Limited
4	Ujjivan Small Finance Bank Limited
5	Utkarsh Small Finance Bank Limited
6	ESAF Small Finance Bank Limited.
7	Jana Small Finance Bank Limited.

- B. The acceptance of the guarantees shall also be subject to the following conditions:-
- i. The capital adequacy of the Bank shall not be less than the norms prescribed by RBI (presently 9, with effect from 31st March, 2003,).
 - ii. The bank guarantee issued by a Cooperative Bank shall not be accepted.

16.4 Any bid not accompanied by an acceptable Bid Security, shall be rejected by the Employer as **non-responsive**.

16.5 The Bid Security of unsuccessful bidders will be returned **within 28 days** of the end of the Bid validity period specified in Sub-Clause 15.1.

16.6 **The Bid Security will be forfeited:**

- a) if the Bidder withdraws the Bid after its submission during the period of Bid validity;
- b) if the Bidder does not accept the correction of the bid price, pursuant to Clause 27; **or**
- c) in the case of a successful Bidder, if the Bidder fails within the specified time limit to
 - i. **Sign the Agreement;** and/or
 - ii. **Furnish the required Performance Security** and/or
 - iii. **Submit the original documents as specified in Clause 12.2**

17. Alternative Proposals by Bidders

17.1 Bidder shall submit offers that fully comply with the requirement of the bidding document including conditions of contract, conditional offer or alternate offer will not be considered further in the process of tender evaluation and the bid will be declared **non-responsive**.

18. Format and Signing of Bid

18.1 The Bidder shall submit e-bid comprising of the documents as described in Clause 12 of the ITB.

D. Submission of Bids

19. Marking of Bids

19.1 The documents to be submitted in Online Mode should be as per clause 12.2 of ITB

20. Schedule for Submission of Bids

20.1 Complete E-Bid to be uploaded on e-procurement portal before due date & time.

20.2 The Employer may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 10, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will then be subject to the new deadline.

20.3 The detailed schedule for submission of bid shall be, as given in Appendix to ITB.

21. Deleted

22. Modification and Withdrawal of Bids

22.1 Bidders may modify or withdraw their e-bids before the deadline prescribed in Clause 20.

22.2 No bid may be modified after the deadline for submission of Bids.

22.3 Withdrawal of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 15.1 above or as extended pursuant to Clause 15.2 shall result in the forfeiture of the Bid security pursuant to Clause 16.

E. Bid Opening and Evaluation

23. Bid Opening

Bid opening shall be carried out in two stages. Firstly, 'Technical Bid' of all the bids received shall be opened on the date and time mentioned in the Appendix to ITB. 'Financial Bid' of those bidders whose technical bid has been determined to be substantially responsive shall be opened on the subsequent date through online process of e-tender, which will be notified to such bidders.

23.1 The Employer will open the "Technical Bid" of all the bids received within due date and time, in the presence of the bidders/bidders' representatives who choose to attend at the time, date and place specified in the **NIT**. In the event of the specified date for the submission of bids being declared a holiday for the Employer, the Bids will be opened at the appointed time and location on the next working day.

- 23.2** In all other cases, the amount of Bid Security, forms and validity shall be announced. Thereafter, the Employer at the opening as the Employer may consider appropriate, will announce the bidders' names and such other details.
- 23.3** The Employer will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 23.1.
- 23.4**
- i.** The bids accompanied with valid bid security will be taken up for evaluation with respect to the Qualification Information and other information furnished in Part I of the bid pursuant to Clause 12.1.
 - ii.** As soon as possible, the Evaluation Committee will finalize the list of responsive bidders whose financial bids are eligible for consideration. However, to assist in the examination, evaluation of technical bids, the Employer may at his discretion, ask any bidder for clarification of his bid, however, no additional documents in support of clarification will be entertained.
- 23.5** The Employer shall inform the bidders, whose technical bids are found responsive, of the date, time and place of opening of the financial bids. The bidders so informed, or their representative, may attend the meeting of opening of financial bids.
- 23.6** The financial bids of only the responsive bidders will be opened. The responsive bidders' names, the Bid prices, the total amount of each bid, pursuant to clause 22 and such other details as the Employer may consider appropriate will be announced by the Employer at the time of bid opening.
- 23.7** The Employer shall prepare the minutes of the opening of the Financial Bids.

24. Process to be Confidential

- 24.1** Information relating to the examination, clarification, evaluation, and comparison of bids and recommendations for the award of a contract shall not be disclosed to bidders or any other persons not officially concerned with such process until the award to the successful Bidder has been announced. Any attempt by a Bidder to influence the Employer's processing of bids or award decisions may result in the rejection of his Bid.

25. Clarification of Bids and Contacting the Employer

- 25.1.** To assist in the examination, evaluation, and comparison of Bids, the Employer may, at his discretion, ask any Bidder for clarification of his-Bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by email, but no change in the price or substance of the Bid shall be sought, offered, or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids in accordance with Clause 27.
- 25.2** Subject to sub-clause 25.1, no Bidder shall contact the Employer on any matter relating to his bid from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Employer, he should do so in writing.

25.3 Any effort by the Bidder to influence the Employer in the Employer's bid evaluation, bid comparison or contract award decisions may result in the rejection of the Bidders' bid.

26. Examination of Bids and Determination of Responsiveness

26.1 During the detailed evaluation of “Technical Bids”, the Employer will determine whether each Bid

- (a) meets the eligibility criteria defined in Clauses 3 and 4;
- (b) the required documents uploaded by the bidder are in order; and
- (c) is substantially responsive to the requirements of the bidding documents. During the detailed evaluation of the “Financial Bids”, the responsiveness of the bids will be further determined with respect to the remaining bid conditions, i.e., priced bill of quantities, technical specifications and drawings etc.

27. Correction of Errors.

27.1 Financial Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors.

27.2 The amount stated in the Financial Bid will be corrected by the Employer for the correction of errors and shall be considered as binding upon the Bidder. If the Bidder does not accept the corrected amount, the Bid will be rejected, and the Bid Security shall be forfeited in accordance with Sub-Clause 16.6(b).

28. Evaluation and Comparison of Financial Bids.

28.1 The Employer will evaluate and compare only the bids determined to be substantially responsive in accordance with Clause 26.

28.2 In evaluating the bids, the Employer will determine for each Bid the evaluated Bid price by adjusting the Bid price after making any correction for errors pursuant to Clause 27;

28.3 **If the Bid of the successful Bidder is seriously unbalanced** then an irrevocable and unconditional guarantee from a Bank should also be submitted in the same form given in Section-IV towards an Additional Performance Security (**the “Additional Performance Security”**) for an amount calculated as under:

- a) If the Bid Price offered by the Selected Bidder is lower than 15% but upto 20% of the estimated Project cost, then the Additional Performance Security shall be 10% of the Contract Price.
- b) If the Bid Price offered by the Selected Bidder is lower than 20% of the Estimated Project Cost, then the Additional Performance Security shall be 20% of the Contract Price.
- c) This Additional Performance Security shall be treated as part of the Performance Security.

28.4 A bid, which is quoted unrealistically low and which cannot be substantiated satisfactorily by the bidder, may be rejected as non-responsive.

29. Deleted

F. Award of Contract.

30. Award Criteria.

30.1 Subject to Clause 32, the Employer will award the Contract to the Bidder whose Bid has been determined:

- i. To be substantially responsive to the bidding documents and who has offered the lowest evaluated Bid price.

31. Employer's Right to accept any Bid and to reject any or all Bids

31.1 Notwithstanding Clause 30, the Employer reserves the right to accept or reject any Bid, and to cancel the bidding process and reject all bids, at any time prior to the award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Employer's action.

32. Notification of Award and Signing of Agreement.

32.1 The bidder who's Bid has been accepted will be notified of the award by the Employer. This letter (hereinafter and in the Part I *General Conditions of Contract* called the "Letter of Acceptance") will state the sum that the Employer will pay to the Contractor in consideration of the execution, completion and maintenance of the Works, by the Contractor as prescribed by the Contract (hereinafter and in the Contract called the "Contract Price").

32.2. The notification of award will constitute the formation of the Contract and the Bid Security will be converted into Performance Security (part).

32.3. The Agreement will incorporate all agreements between the Employer and the successful Bidder. It will be signed by the Employer and the successful Bidder within 7 days of receipt of LOA by the bidder.

33. Performance Security.

33.1 **Within 10 (Ten) days** after receipt of the Letter of Acceptance, the successful Bidder shall deliver to the Employer a balance Performance Security i.e. **3% percent of the Contract Price**, for the period of **28 days** after the expiry of defect liability period from the date of issue of certificate of completion of work plus additional security for unbalanced Bid in accordance with clause 28.3 of ITB and sign the contract. The performance Security for the work shall be as

mentioned in the Appendix to ITB. The specifications w.r.t Bank Guarantee towards Performance Security shall be as per clause 16 above.

- 33.2 Failure of the successful bidder to comply with the requirement of sub-clause 33.1 shall constitute sufficient ground for cancellation of the contract and forfeiture of the bid security converted into Performance Security (part) and debarment for a period of 2 years from the date of debarment.

34. Advances.

- 34.1 The Employer will provide Mobilization Advance as provided in Part I General Conditions of Contract.

35. Corrupt or Fraudulent Practices.

The Employer will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question and will declare the firm ineligible, either indefinitely or for a stated period of time, to bid for any work with National Highways Authority of India, if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for the contract, or in its execution.

For the purpose of this clause, 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 actions of any person connected with the Bidding 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 Bidding Process, 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 Bidding Process);
- (b) “**Fraudulent practice**” means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process;

The Employer requires the bidders/Contractors to strictly observe the laws against fraud and corruption enforced in India, namely, Prevention of Corruption Act, 1988.

Appendix to ITB

Clause No.

1.1 The Employer is Managing Director National Highways & Infrastructure Development Corporation Limited.

1.1 Bidder may be a natural person, private entity, sole or partnership firm, company incorporated and registered in India.

3.1

4.4 A (a) *achieved an average annual financial turnover equivalent to Rs. 4.45 crore during last three year ending 31st March of the previous financial year duly certified by Chartered Accountant and shall have a minimum Net Worth of Rs. 55.70 Lakh at the close of the preceding financial year.*

- 4.4 A (b)**
- i. One similar completed work**costing not less than amount equals to **Rs. 8.91 Crore**
OR
- ii. Two similar completed works** costing not less than amount equals to **Rs. 6.68 Crore**
OR
- iii. Three similar completed works** costing not less than amount equals to **Rs. 4.45 Crore.**

(***The “similar work”: means shifting of water supply pipelines*)

15.3 Bid Document fee (Incl. 18% GST): Rs.11,800/- (Rupees Eleven Thousand Eight Hundred only.)

16.2 **Bid Security:** 1% of Estimated Cost.

20.3 **Schedule for submission of Bids**

<i>S. No</i>	<i>Description</i>	<i>Period</i>
1.	Date of issue of NIT	05.10.2021
2.	Date of issue of Sale of Tender Documents	05.10.2021
3.	Date of receipt of pre-bid queries	05.10.2021
4.	Date of Pre-Bid meeting at RO Jammu	13.10.2021 (at 15:00 Hrs)
5.	Date of uploading of reply to the pre-bid queries	14.10.2021
6.	Date of close of sale of Tender Documents (through online)	21.10.2021 (upto 1200 Hrs)
7.	Date of submission of Tender/Bid (online)	21.10.2021 (upto 1200 Hrs)
8.	Date of opening of Technical bid (online)	22.10.2021

33.1 **Performance Security:** 3% of the Estimated cost.

(SECTION –III)

QUALIFICATION INFORMATION

The information to be filled in by the Bidder in this section on E-portal & **Scanned Copies of documents to be submitted online** will be used for the purposes of post qualification as provided for in Clause 4 of the Instructions to Bidders.

1. For Individual Bidders

1.1 Constitution or legal status of Bidder

[Upload scanned copy of Original]

Details of Ownership _____

Place of registration: _____

Principal place of business: _____

1.2 Power of attorney of signatory of Bid *[Upload scanned copy & also submit Original copy in physical form]*

1.3 Total value of Civil Engineering shifting/laying of water supply pipelines performed in the last three years (in Rs. Lakh) Refer ITB Clause 4.5 A(a)
(Upload scanned copies of Turnover certificates from Chartered Accountant & also submit original certificate from Chartered Accountant)

2018-2019-----

2019-2020-----

2020-2021-----

Total -----

Average per year -----

1.4 (a) Work performed as prime contractor, work performed in the past as a nominated sub-contractor duly approved by Employer will also be considered , provided further that all other qualification criteria are satisfied (in the same name) on works of a similar nature during the last five years to qualify as per ITB.

Project Name	Name of the Employer*	Description of work	Contract No.	Value of Contract (Rs. Crore)	Date of issue of work order	Stipulated period of completion	Actual date of completion*	Remarks explaining reasons for delay & work Completed

--	--	--	--	--	--	--	--	--	--

* Attach certificate(s) from the minimum rank of Executive Engineer or equivalent

Note: In case of nominated sub-contractor – a certificate from the minimum rank of Executive Engineer or equivalent of the Prime Employer should be obtained from whom an approval for subcontractor has been obtained.

(b) Information on Bid Capacity (works for which bids have been submitted and accepted and works which are yet to be completed) as on the date 7 days before the last date for bid submission (as per CI 4.6 of the ITB).

(i) Existing commitments and on-going works (B)

Description of works	Place & State	Contract No.	Name & Address of Employer	Value of Contract (Rs. Cr)	Stipulated Period of Completion	Value of works remaining to be completed in the next N years (Rs Cr)	Escalation factor	Anticipated date of completion	Escalated value of remaining work during completion period of work for which bids are invited
1	2	3	4	5	6	7	8	9	10

ii) Details of works for which bid submitted and accepted (i.e. where contract signing is pending)

Description of works	Place & State	Name & Address of Employer	Date of issue of Letter of Acceptance (LOA)	Value given in LOA	Stipulated period for completion	Value of work during completion period of work for which bids are invited
1	2	3	4	5	6	7

Upload copy of LOA

iii) **Bid capacity** (Bidder shall calculate, mention his bid capacity and enclose the supporting calculation)

A = Rs _____ Lakh (enclose the details)

26 *Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.*

B = Rs..._____Lakh (enclose the details)

Assessed Available Bid capacity = (A* 2.5 – B)

1.5. The bidder must provide information regarding their plan for the shifting/laying of utilities.

1.6. Information on litigation/ arbitration history in which the Bidder is involved.

Other Party (ies)	Employer	Cause of Dispute	Amount involved	Remarks showing Present Status

2. Bidders should provide the following affidavits/ undertakings as per formats enclosed hereafter: -

- (i) Affidavit (it should be on stamp paper attested by Notary)
- (ii) Undertaking that the Bids shall remain valid for the period specified in Clause 15.1.

AFFIDAVIT

(To be notarized by Notary)

1. I, the undersigned, do hereby certify that all the statements made in the required attachments are true and correct.
2. The undersigned also hereby certifies that neither our firm M/s _____ have abandoned any work on National Highways in India nor any contract awarded to us for such works have been rescinded, during last five years prior to the date of this bid.
3. The undersigned hereby authorize(s) and request(s) any bank, person, firm or corporation to furnish pertinent information deemed necessary and requested by the Department to verify this statement or regarding my (our) competence and general reputation.
4. The undersigned understand and agrees that further qualifying information may be requested, and agrees to furnish any such information at the request of the Department Project implementing agency.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

DATE

UNDERTAKING

I, the undersigned do hereby undertake on behalf of our firm M/s [Name of the bidder], that we shall not withdraw or modify our bid during the period of validity from the bid submission date.

I, on behalf of the bidder, [Name of the bidder], also accept the fact that in case the bid is withdrawn or modified during the period of its validity or if we fail to sign the contract in case the work is awarded to us or we fail to submit a performance security before the deadline defined in the Bid, then [Name of the bidder] will be debarred for participation in the tendering process for the works of NHIDCL and other works under other Centrally Sponsored Schemes, for a period of two year from the bid due date of this work.

(Signed by an Authorized Officer of the Firm)

Title of Officer

Name of Firm

DATE

Annexure-A

Letter Head of the Statutory Auditor
(Giving phone number, address and email address)
CERTIFICATE OF NET WORTH BY STATUTORY AUDITOR

1. This certificate is being issued on the request of(Name of the Bidder and address) for participating in tender in respect of National Highways and Infrastructure Development Corporation of India Ltd. in accordance with the applicable auditing standards and guidance Note issued by the Institute of Chartered Accountant of India.
2. We M/s(Name of the Statutory Auditor) are statutory auditors of(Name of the Bidder) for the year ended 31st March 20XX (appropriate year may be filled in).

Note 1: In case the certificate is issued by any firm other than statutory Auditors of a company, the form no. ADT 1.duly filed with the Registrar of Companies is attached.

Note 2: In cases the Bidder does not have statutory auditor, the firm of chartered accountants that audited last financial statements/books of accounts shall be treated as Statutory Auditor while in case of a company, the statutory auditor shall have same meaning as 'Auditor' defined under the Companies Act, 2013.

3. We have obtained all relevant record and information that were necessary for providing this certificate.
4. We have read and understood the tender documents relating to financial (e.g. 'Turnover' and 'Net worth'), verified the standalone audited financial statements of (Name of the Bidder), books of accounts and other relevant records and information as at 31st March 20XX produced before us by(Name of the Bidder), and on basis of such verification, information and explanation given to us, we certify that Net Worth of(Name of the Bidder) as on 31 March 20XX has been computed strictly in compliance with the provision of clause 2.2.2.9(ii) of the RFP documents of the NHIDCL and as under:

Sr. No	Particulars	Amount (₹ in lakh)	Remarks
1	Paid of Equity Share Capital (This does not include advance against equity and application money pending allotment)		
2	Reserves and Surpluses (Other equity in case of Financial Statements are prepared under Ind AS) created out of profits)		
2.1	Accumulated Profits		
2.2	Share/Security premium		
2.3	Other Reserves		
	Total		
	Less Accumulated losses, if any		

	Less Miscellaneous expenditure to the extent not written off or adjusted		
	Less Deferred Revenue Expenditure, if any		
	Less write back of depreciation, if any		
	Less any other reserve created out of profits like amalgamation, capital restructuring, first time adoption of Ind AS or debt restructuring prior to full settlement of debts.		

5. This is certified that the Calculation of Net worth is based on **standalone financial statements** of(Name of the Bidder) prepared in conformity with applicable Accounting Standards and it does not include following components:
- i. Advance against equity;
 - ii. Share application money, pending allotment;
 - iii. Redeemable or non-redeemable Preference share capital ;
 - iv. Convertible and non-convertible debentures;
 - v. Revaluation Reserves;
 - vi. Accumulated losses;
 - vii. Write back of depreciation;
 - viii. Other comprehensive income, in cases where financial statements are prepared based on Ind AS;
 - ix. Reserves created from restructuring of debt etc till their settlement of debts;
 - x. Deferred Tax Liabilities; and
 - xi. Impact of restructuring or amalgamation of the bidder.

For XYZ & Associates
Chartered Accountant
(FRN:)

Name of CA:
Partner/Proprietor Membership No.:
Place:
Date:
UDIN:

Annexure-B

Letter Head of the Statutory Auditor
(Giving phone number, address and email address)

CERTIFICATE OF TURNOVER BY STATUTORY AUDITOR

1. This certificate is being issued on the request of(Name of the Bidder and address) for participating in tender in respect of National Highways and Infrastructure Development Corporation of India Limited in accordance with the applicable auditing standards and guidance Note issued by the Institute of Chartered Accountant of India.
2. We M/s(Name of the Statutory Auditor) are statutory auditors of(Name of the Bidder) for the year ended 31st March 20XX (appropriate year may be filled in).

Note 1: In case the certificate is issued by any firm other than statutory Auditors of a company, the form no. ADT 1.duly filed with the Registrar of Companies is attached.

Note 2: In cases the Bidder does not have statutory auditor, the firm of chartered accountants that audited last financial statements/books of accounts shall be treated as Statutory Auditor while in case of a company, the statutory auditor shall have same meaning as ‘Auditor’ defined under the Companies Act, 2013.

3. We have obtained all relevant record and information that were necessary for providing this certificate.
4. We have read and understood the tender documents relating to financial and technical capacity (e.g. ‘Turnover’ and ‘Net worth’), verified the standalone audited financial statements of (Name of the Bidder), books of accounts and other relevant records and information as at 31st March 20XX produced before us by(Name of the Bidder), and on basis of such verification, information and explanation given to us, we certify as under:

S.No.	Financial year	Turnover (₹ In lakh)
1	Year 1 (2020-2021)	
2	Year 2 (2019-2020)	
3	Year 3 (2018-2019)	

In case financial statements of the latest financial year are not audited and therefore, the bidder cannot make it available, the bidder shall provide an undertaking to this effect and statutory auditor shall certify the same. In such case, the bidder shall provide the audited financial statements for five year immediately preceding the year for which the audited annual report is not being produced as per clause 2.2.2.8 of the RFP. In case ,undertaking duly certified by statutory auditor is not submitted under such circumstances, the annual turnover for the year for

which audited annual financial statements are not available shall be considered as 'Nil' for the purposes of arriving at the average annual turnover.

5. Annual Turnover updated to the price level of the year, based on factors indicated in table xxx of the tender documents, is given below:

Year	Year-1	Year-2	Year-3	Year-4	Year-5
Updation factor	1.00	1.05	1.10	1.15	1.20
Actual Turnover (₹ In lakh)					
Updated Turnover (₹ In lakh)					

Average Updated Turnover (to the price level of the year) = (₹ In lakh)

6. This is also certified that the Calculation of turnover is based on **standalone financial statements** of(Name of the Bidder) prepared in conformity with applicable Accounting Standards and it does not include any component of indirect tax like GST.
7. This is also certified that the that turnover mentioned in para 5 is in individual capacity of(Name of the Bidder) and its share in the Joint Venture where the work had been executed jointly with other party/parties and such a joint venture is not a separate legal entity. Further, the above turnover does not include any turnover related to joint venture or subsidiary having a separate legal entity.
8. This is also certified that turnover mentioned in para 5 is in respect of execution of construction/ civil /engineering activities and does not include any trading activity of(Name of the Bidder).

For XYZ & Associates
Chartered Accountant
(FRN:)

Name of CA:
Partner/Proprietor Membership No.:
Place:
Date:
UDIN:

**SECTION-IV
FORMS OF BANK GUARANTEES, LOA & AGREEMENT**

FORM OF BANK GUARANTEE FOR BID SECURITY

WHEREAS _____ (Name of Bidder) (hereinafter called the Bidder) wishes to submit his Bid for herein after called “the Bid” KNOW ALL MEN by these present that we _____ (Name of Bank) of _____ (Name of country) having our registered office at (_____) (hereinafter called the „Bank“) are bound unto Managing Director, National Highways & Infrastructure Development Corporation Ltd. (hereinafter called “the Employer”) in the sum of the Rs. _____ (Rupees _____) *for which payment can truly be made to the said Employer. The Bank bind themselves, their successors and assigns by these present with the common seal of the Bank this day _____ of _____ and undertake to pay the amount of _____ Rs. _____ to the employer upon receipt of his first written demand without the employer having to substantiate his demand.

The conditions of this obligation are:

(i) If the Bidder withdraws his Bid during the period of Bid validity specified in the Form of Bid.

Or

(ii) If the Bidder having been notified of the acceptance of his Bid by the Employer during the period of Bid validity.

(a) fails or refuses to execute the Form of Agreement in accordance with the instructions to bidders, if required; or

(b) fails or refuses to furnish the Performance Security, in accordance with the Instruction to Bidders.

We undertake to pay to the Employer upto the above amount upon receipt of his first written demand, without the employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence of any one of the above conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including the date 45 days beyond the validity of the bid as stated in the Instructions to Bidders or as it may be extended by the Employer, at any time prior to the closing date for submission of the Bidders Notice of which extension to the Bank is hereby waived. Any demand in respect of this guarantee should be made on the Bank on or before the date of expiry of this guarantee.

This guarantee shall also be operatable at our Branch at Jammu, from whom, confirmation regarding the issue of this guarantee or extension/ renewal thereof shall be made available on demand. In



the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation. Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs. (Rsin words) and the guarantee shall remain valid till Unless a claim or a demand in writing is served upon us on or before all our liability under this guarantee shall cease.

Bank Guarantee has been sent to authority's bank through SFMS gateway as per the details below:-

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited
2	Beneficiary Bank Account No.	76411010002171
3	Beneficiary Bank Branch	IFSC CNRB0002975
4	Beneficiary Bank Branch Name	Canara Bank, Channi-Himmat
5	Beneficiary Bank Address	Canara Bank, Channi-Himmat, Jammu, J&K, 180015

SIGNATURE OF AUTHORISED REPRESENTATIVE OF THE BANK _____

NAME AND DESIGNATION _____

EMPLOYEE CODE NUMBER SEAL OF THE BANK _____

SIGNATURE OF THE WITNESS (IF THIS IS TO BE WITNESSED AS PER BANK'S POLICY)

NAME OF THE WITNESS _____

ADDRESS OF THE WITNESS _____

Form of Bank Guarantee
[Performance Security/Additional Performance Security]

To

_____ [name of Authority]
_____ [address of Authority]

WHEREAS _____ [name and address of Contractor] (hereafter called the “Contractor”) has undertaken, in pursuance of Letter of Acceptance (LOA) No. _Dated_ for construction of [name of the Project] (hereinafter called the “Contract”)

AND WHEREAS the Contract requires the Contractor to furnish an {Performance Security/ Additional Performance Security} for due and faithful performance of its obligations, under and in accordance with the Contract, during the {Construction Period/ Defects Liability Period and Maintenance Period} in a sum of Rs..... cr. (Rupees crore) (the “**Guarantee Amount**”¹).

AND WHEREAS we, through our branch at (the “**Bank**”) have agreed to furnish this Bank Guarantee (hereinafter called the “**Guarantee**”) by way of Performance Security.

NOW, THEREFORE, the Bank hereby, unconditionally and irrevocably, guarantees and affirms as follows:

1. The Bank hereby unconditionally and irrevocably guarantees the due and faithful performance of the Contractor’s obligations during the {Construction Period/ Defects Liability Period and Maintenance Period} under and in accordance with the Contract, and agrees and undertakes to pay to the Authority, upon its mere first written demand, and without any demur, reservation, recourse, contest or protest, and without any reference to the Contractor, such sum or sums up to an aggregate sum of the Guarantee Amount as the Authority shall claim, without the Authority being required to prove or to show grounds or reasons for its demand and/or for the sum specified therein.

2. A letter from the Authority, under the hand of an officer not below the rank of [General Manager of National Highways & Infrastructure Development Corporation Limited], that the Contractor has committed default in the due and faithful performance of all or any of its obligations under and in accordance with the Contract shall be conclusive, final and binding on the Bank. The Bank further agrees that the Authority shall be the sole judge as to whether the Contractor is in default in due and faithful performance of its obligations during and under the Contract and its decision that the Contractor is in default shall be final and binding on the Bank, notwithstanding any differences between the Authority and the Contractor, or any dispute between them pending before any court, tribunal, arbitrators or any other authority or body, or by the discharge of the Contractor for any reason whatsoever.

¹ Guarantee Amount for Performance Security and Additional Performance Security shall be calculated as per Contract.

3. In order to give effect to this Guarantee, the Authority shall be entitled to act as if the Bank were the principal debtor and any change in the constitution of the Contractor and/or the Bank, whether by their absorption with any other body or corporation or otherwise, shall not in any way or manner affect the liability or obligation of the Bank under this Guarantee.
4. It shall not be necessary, and the Bank hereby waives any necessity, for the Authority to proceed against the Contractor before presenting to the Bank its demand under this Guarantee.
5. The Authority shall have the liberty, without affecting in any manner the liability of the Bank under this Guarantee, to vary at any time, the terms and conditions of the Contract or to extend the time or period for the compliance with, fulfillment and/ or performance of all or any of the obligations of the Contractor contained in the Contract or to postpone for any time, and from time to time, any of the rights and powers exercisable by the Authority against the Contractor, and either to enforce or forbear from enforcing any of the terms and conditions contained in the Contract and/or the securities available to the Authority, and the Bank shall not be released from its liability and obligation under these presents by any exercise by the Authority of the liberty with reference to the matters aforesaid or by reason of time being given to the Contractor or any other forbearance, indulgence, act or omission on the part of the Authority or of any other matter or thing whatsoever which under any law relating to sureties and guarantors would but for this provision have the effect of releasing the Bank from its liability and obligation under this Guarantee and the Bank hereby waives all of its rights under any such law.
6. This Guarantee is in addition to and not in substitution of any other guarantee or security now or which may hereafter be held by the Authority in respect of or relating to the Contract or for the fulfillment, compliance and/or performance of all or any of the obligations of the Contractor under the Contract.
7. Notwithstanding anything contained hereinbefore, the liability of the Bank under this Guarantee is restricted to the Guarantee Amount and this Guarantee will remain in force for the period specified in paragraph 8 below and unless a demand or claim in writing is made by the Authority on the Bank under this Guarantee all rights of the Authority under this Guarantee shall be forfeited and the Bank shall be relieved from its liabilities hereunder.
8. The Guarantee shall cease to be in force and effect on ****^s. Unless a demand or claim under this Guarantee is made in writing before expiry of the Guarantee, the Bank shall be discharged from its liabilities hereunder.
9. The Bank undertakes not to revoke this Guarantee during its currency, except with the previous express consent of the Authority in writing, and declares and warrants that it has the power to issue this Guarantee and the undersigned has full powers to do so on behalf of the Bank.
10. Any notice by way of request, demand or otherwise hereunder may be sent by post addressed to the Bank at its above referred branch, which shall be deemed to have been duly authorized to receive such notice and to effect payment thereof forthwith, and if sent

Insert date atleast 2 (two) years from the date of issuance of this Guarantee (in accordance with Clause 2.21 of the RFP). The Contractors can submit the BG for periods of two years at one time and keep on renewing the same till the DLP is over if they have problems in getting the BG in one go for the entire DLP.

by post it shall be deemed to have been given at the time when it ought to have been delivered in due course of post and in proving such notice, when given by post, it shall be sufficient to prove that the envelope containing the notice was posted and a certificate signed by an officer of the Authority that the envelope was so posted shall be conclusive.

11. This Guarantee shall come into force with immediate effect and shall remain in force and effect for up to the date specified in paragraph 8 above or until it is released earlier by the Authority pursuant to the provisions of the Contract.

12. This Guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

13. This guarantee shall also be operatable at our.....Branch at Jammu, from whom, confirmation regarding the issue of this guarantee or extension / renewal thereof shall be made available on demand. In the contingency of this guarantee being invoked and payment thereunder claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.

14. The guarantor/bank hereby confirms that it is on the SFMS (Structural Finance Messaging System) platform & shall invariably send an advice of this Bank Guarantee to the designated bank of NHIDCL, details of which is as under:

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited
2	Beneficiary Bank Account No.	76411010002171
3	Beneficiary Bank Branch	IFSC CNRB0002975
4	Beneficiary Bank Branch Name	Canara Bank, Channi-Himmat
5	Beneficiary Bank Address	Canara Bank, Channi-Himmat, Jammu, J&K, 180015

Signed and sealed this day of, 20..... at

SIGNED, SEALED AND DELIVERED

For and on behalf of the Bank by:

(Signature)

(Name)

(Designation)

(Code Number)

(Address)

FORM OF LETTER OF APPLICATION

To,
Executive Director (P)
NHIDCL RO-Jammu
National Highways & Infrastructure Development Corporation Limited.
House no. 261, Sector 6
Channi Himmat, Jammu
Jammu & Kashmir

DESCRIPTION OF WORKS: Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.

Dear Sir,

Having examined the Bid Document, Instruction to Bidders Qualification Information, Scope of works, etc. for the subject work. We, hereby submit our technical and financial bid for the subject work.

It is certified that the information furnished in this document is true and correct. The proposal is unconditional and unqualified. We undersigned accept that NHIDCL reserves the right to reject any or all application without assigning any reason.

Thanking you,

Yours faithfully,

(Authorized Signatory)
For and on behalf of M/s_____

FORM OF LETTER OF ACCEPTANCE

No.

Dated

To
M/s.....

Sub.: **Name of Work**

Sir,

Based on your bid submitted on in compliance of bidding document of NHIDCL for execution of the work of , it is hereby notified that your bid for a contract price of **Rs..... (Rupees in words.....)** has been accepted by the Competent Authority.

You are hereby requested to sign the contract agreement within 7 days from the receipt of this letter and furnish Performance Security in the form detailed in para 33.2 of ITB for an amount equivalent to **Rs..... (Rupees in words.....)** within 30 days as per provisions of clause 33.1 of ITB of the bid document and failing which the actions as stipulated in clause- 33.3 of ITB shall be taken.

Thanking you,

Yours faithfully,

(.....)
Authorized Signatory

FORM OF AGREEMENT

AGREEMENT

This agreement made the _____ day of _____ 20...._____ between the National Highways & Infrastructure Development Corporation Limited, New Delhi (hereinafter called “the Employer” of the one part and _____ (here in after called “the Contractor”) of the other part.

AND WHEREAS the Employer invited bids from eligible bidders for the execution of certain works, viz **“Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir”**, Contract Package no: **NHIDCL/RO(JMU)/J-A(Pkg-III)/UtilityShifting/PHE/2021-22]**”

AND WHEREAS pursuant to the bid submitted by the Contractor, vide _____ (here in after referred to as the “BID” or “ÖFFER”) for the execution of works, the Employer by his letter of acceptance dated _____ accepted the offer submitted by the Contractor for the execution and completion of such works and remedying of any defects thereon, on terms and conditions in accordance with the documents listed in para 2 below.

AND WHEREAS the Contractor has agreed to abide by all the terms of the bid, including but not limited to the amount quoted for the execution of Contract, as stated in the bid, and also to comply with such terms and conditions as may be required from time to time.

AND WHEREAS the contractor has agreed to undertake such works and has furnished a performance security pursuant to clause 33 of the instructions to bidders (Section-I).

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this agreement words and expressions shall have the same meaning as are respectively assigned to them in the conditions of contract hereinafter referred to;
2. the following documents shall be deemed to form and be read and construed as part of this agreement viz.
 - (a) Agreement,
 - (b) Letter of Acceptance
 - (c) Contractor's Bid including Financial Bid Form,
 - (d) Contract Data,
 - (e) Conditions of Contract
 - (f) Scope of work, Technical specifications and drawings
 - (g) Bill of Quantities, and
 - (h) Any other document listed in the Contract Data.
3. The foregoing documents shall be construed as complementary and mutually explanatory one with another. Should any ambiguity or discrepancy be noted then the order of precedence of

these documents shall be subject to the order as listed above and interpreted in the above order of priority.

4. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the works and remedy any defects therein in conformity in all respects with the provisions of the contract.
5. the employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and remedying of defects therein, the contract price or such other sum as may become payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties here to have caused this agreement to be executed the day and year above written. Signed, sealed and delivered by the said Employer through his Authorized Representative and the said Contractor through his Power of Attorney holder.

Binding Signature of Employer

For and on behalf of
National Highways & Infrastructure
Development Corporation Ltd., by

(M. Riten Kumar Singh)
Executive Director (P)

Binding Signature of Contractor

For and on behalf of
M/s, by

(.....)
Authorised Representative

In the presence of

1. Name:
Address:

2. Name:
Address:

In the presence of

1. Name:
Address:

2. Name:
Address:

(SECTION –V)

CONDITIONS OF CONTRACT & CONTRACT DATA

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Section V

Conditions of Contract

A. General

1. Definitions

1.1 Terms which are defined in the Contract Data are not defined in the Conditions of Contract but keep their defined meanings. Capital initials are used to identify defined terms.

Bill of Quantities means the priced and completed Bill of Quantities forming part of the Bid.

Compensation Events are those defined in Clause 41 hereunder.

The Completion Date is the date of completion of the Works as certified by the Engineer, in accordance with Clause 49.1.

The Contract is the Contract between the Employer and the Contractor to execute, complete, and maintain the Works. It consists of the documents listed in Clause 2.3.

The Contract Data defines the documents and other information, which comprise the Contract.

The Contractor is a person or corporate body whose Bid to carry out the Works has been accepted by the Employer.

The Contractor's Bid is the completed bidding document submitted by the Contractor to the Employer and includes technical and financial bids.

The Contract Price is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.

Days are calendar days; months are calendar months.

A **Defect** is any part of the Works not completed in accordance with the Contract.

The Defects Liability Certificate is the certificate issued by Engineer, after the Defect Liability Period has ended and upon correction of Defects by the Contractor.

The Defects Liability Period is the period named in contract data and calculated from the Completion Date.

Drawings include calculations and other information provided or approved by the Engineer for the execution of the Contract.

The Employer is the party as defined in the Contract Data, who employs the Contractor to carry out the Works. The Employer may delegate any or all of its functions to a person or body nominated by him for specified functions.

The Engineer is the person named in the Contract Data (or any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract.

Equipment is the Contractor's machinery and vehicles brought temporarily to the Site to construct the Works.

The Initial Contract Price is the Contract Price listed in the Employer's Letter of Acceptance.

The Intended Completion Date is the date on which it is intended that the Contractor shall complete the Works. The Intended Completion Date is specified in the Contract Data. The Intended Completion Date may be revised only by the Engineer by issuing an extension of time after the approval from Employer.

Materials are all supplies, including consumables, used by the Contractor for incorporation in the Works.

Plant is any integral part of the Works that shall have a mechanical, electrical, electronic, chemical, or biological function.

The **Site** is the area defined as such in the Contract Data.

Site Investigation Reports are those that were included in the bidding documents and are factual interpretative reports about the surface and subsurface conditions at the Site.

Specification means the Specification of the Works included in the Contract and any modification or addition made or approved by the Engineer.

The **Start Date** is given in the Contract Data. It is the date when the Contractor shall commence execution of the Works. It does not necessarily coincide with any of the Site Possession Dates.

A **Sub-Contractor** is a person or corporate body who has a Contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.

Temporary Works are works designed, constructed, installed, and removed by the Contractor that are needed for construction or installation of the Works.

A **Variation** is an instruction given by the Engineer after the approval from NHIDCL, which varies the Works.

The **Works** are what the Contract requires the Contractor to construct, install, maintain, and handover to the Employer, as defined in the Contract Data.

2. Interpretation

2.1 In interpreting these Conditions of Contract, singular also means plural, male also means female or neuter, and the other way around. Headings have no significance. Words have their normal meaning under the language of the Contract unless specifically defined. The Engineer will provide instructions clarifying queries about these Conditions of Contract.

2.2 If sectional completion is specified in the Contract Data, references in the Conditions of Contract to the Works, the Completion Date, and the Intended Completion Date apply to any Section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

2.3 The documents forming the Contract shall be interpreted in the following order of priority.

- (a) Agreement,
- (b) Letter of Acceptance
- (c) Contractor's Bid including Financial Bid Form,
- (d) Contract Data,
- (f) Conditions of Contract
- (f) Scope of work, Technical specifications and drawings
- (g) Bill of Quantities, and
- (h) Any other document listed in the Contract Data.

3. Language and Law

3.1 The language of the Contract and the law governing the Contract are stated in the Contract Data.

4. Engineer's Decisions

4.1 Except where otherwise specifically stated, the Engineer will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

5. Delegation

5.1 The Engineer, duly informing the Employer, may delegate any of his duties and responsibilities to other people except to the Adjudicator, after notifying the Contractor, and may cancel any delegation after notifying the Contractor.

6. Communications

6.1 Communications between parties that are referred to in the Conditions shall be effective only when in writing. A notice shall be effective only when it is delivered.

7. Subcontracting

7.1 The Contractor may subcontract any portion of work, up to a limit specified in Contract Data, with the prior approval of the Employer in writing. Subcontracting shall not alter the Contractor's obligations.

7.2 The Contractor shall not be required to obtain any consent from the Employer for:

- a. the sub-contracting of any part of the Works for which the Sub-Contractor is named in the Contract;
- b. the provision of labour or labour component.
- c. the purchase of Materials which are in accordance with the standards specified in the Contract.

7.3 Beyond what has been stated in clauses 7.1 and 7.2, if the Contractor proposes sub-contracting of any part of the work during execution of the Works, because of some unforeseen circumstances to enable him to complete the Works as per terms of the Contract, the Employer will consider the following before according approval:

- a) The Contractor shall not sub-contract the Works more than the limit specified in Contract Data..
- b) The Contractor shall not sub-contract any part of the Work without prior consent of the Employer. Any such consent shall not relieve the Contractor from any liability or obligation under the Contract and he shall be responsible for the acts, defaults and neglects of any of his sub-Contractor, his agents or workmen as fully as if they were the acts, defaults or neglects of the Contractor, his agents and workmen.

7.3 The Engineer should satisfy himself before recommending to the Employer whether

- a) the circumstances warrant such sub-contracting; and
- b) the sub-Contractor so proposed for the Work possess the experience, qualifications and equipment necessary for the job proposed to be entrusted to him in proportion to the quantum of Works to be sub-contracted.

8. Other Contractors

8.1 The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, and the Employer between the dates given in the Schedule of Other Contractors, as referred to in the Contract Data. The Contractor shall also provide facilities and services for them as described in the Schedule. The Employer may modify the Schedule of Other Contractors, and shall notify the Contractor of any such modification.

8.2 The Contractor should take up the works in convenient reaches as decided by the Engineer to ensure there is least hindrance to the smooth flow of traffic including movement of vehicles and equipment of other Contractors till the completion of the Works.

9. Personnel

9.1 The Contractor shall employ the technical personnel named in the Contract Data. The ED, NHIDCL will approve any proposed replacement of technical personnel (except Project Manager) only if their relevant qualifications and experience are substantially equal to or better than those of the personnel stated in the Contract Data. If the personnel stated in the contract data are not deployed on site by the contractor, a penalty of Rs. 50,000/- per month in case of Project Manager and Rs. 25,000/- in case of other key personnel will be imposed upto a maximum period of 3 months. Thereafter, it will be treated as a breach of contract and action will be taken as per clause 53. The replacement of Project Manager will be approved by Engineer in Charge after the approval of Competent Authority.

9.2 If the Engineer asks the Contractor to remove a person who is a member of the Contractor's staff or work force, stating the reasons, the Contractor shall ensure that the person leaves the Site within seven days and has no further connection with the Works in the Contract.

10. Employer's and Contractor's Risks

10.1 The Employer carries the risks which this Contract states are Employer's risks, and the Contractor carries the risks which this Contract states are Contractor's risks.

11. Employer's Risks

11.1 The Employer is responsible for the excepted risks which are (a) in so far as they directly affect the execution of the Works in the Employer's country, the risks of war, hostilities, invasion, act of foreign enemies, rebellion, revolution, insurrection or military or usurped power, civil war, riot commotion or disorder (unless restricted to the Contractor's employees), natural calamities and contamination from any nuclear fuel or nuclear waste or radioactive toxic explosive, or (b) a cause due solely to the design of the Works, other than the Contractor's design.

12. Contractor's Risks

12.1 All risks of loss of or damage to physical property and of personal injury and death, which arise during and in consequence of the performance of the Contract other than the excepted risks are the responsibility of the Contractor.

13. Insurance

13.1 The Contractor at his cost shall provide, in the joint names of the Employer and the Contractor, insurance cover from the Start Date to the end of defect liability period for events (a) to (d), in the amounts and deductibles stated in the Contract Data for the following events which are due to the Contractor's risks:

- a) loss of or damage to the Works, Plant and Materials;
- b) loss of or damage to Equipment;
- c) loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and
- d) Personal injury or death.

13.2 Insurance policies and certificates for insurance shall be delivered by the Contractor to the Engineer for the Engineer's approval before the Start Date. All such insurance shall provide for compensation to be payable in Indian Rupees to rectify the loss or damage incurred.

13.3 If the Contractor does not provide any of the policies and certificates required, the Employer may affect the insurance which the Contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be debt due.

13.4 Alterations to the terms of insurance shall not be made without the approval of the Engineer.



13.4 Both parties shall comply with any conditions of the insurance policies.

14. Site Investigation Reports

14.1 The Contractor, in preparing the Bid, may rely on any Site Investigation Reports referred to in the Contract Data, supplemented by any other information available to him, before submitting the bid. However, at the time of execution, the contractor may carry out necessary site investigation for design of the foundations in consultation with the engineer.

15. Queries about the Contract Data

15.1 The Executive Director will clarify queries on the Contract Data.

16. Contractor to Construct the Works & maintenance during defect liability.

16.1 The Contractor shall construct, install and maintain the Works during defect liability period in accordance with the documents forming part of the contract. No payment for maintenance during defect liability period is payable. Payment for maintaining the office for a period of 5 years after defect liability will be paid as per the contract.

17. The Works to Be Completed by the Intended Completion Date

17.1 The Contractor may commence execution of the Works on the Start Date and shall carry out the Works in accordance with the Programme submitted by the Contractor, as updated with the approval of the Engineer, and complete them by the Intended Completion Date.

18. Approvals

18.1 The Contractor shall submit Specifications, Design and Drawings showing the proposed Works to the Engineer within 15 days of issuance of LOA, who shall approve them after proof checking within 7 days, if they comply with specifications and drawings.

18.2 The Contractor shall be responsible for detailed design and drawing of all the Works.

18.3 The Engineer's approval shall not alter the Contractor's responsibility for design of all Works.

18.4 The Contractor shall obtain approval of third parties to the design of all the Works, where required, as directed by the Engineer.

18.5 All Drawings prepared by the Contractor for the execution of the temporary or permanent works, are subject to prior approval by the Engineer before their use.

19. Safety

19.1 The Contractor shall be responsible for the safety of all activities on the Site.

20. Discoveries

20.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Engineer of such discoveries and carry out the Engineer's instructions for dealing with them.

21. Possession of the Site

21.1 The Employer shall give complete possession of the Site to the Contractor on the date of signing of agreement.

22. Access to the Site

22.1 The Contractor shall allow access to the Site and to any place where work in connection with the Contract is being carried out, or is intended to be carried out and to any place where material or plant are being manufactured /fabricated / assembled for the works to the engineer and any person/persons/agency authorized by:

- a. The Engineer
- b. The Employer

23. Instructions

23.1 The Contractor shall carry out all instructions of the Engineer, which comply with the applicable laws where the Site is located.

23.2 The Contractor shall permit the Employer to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by Auditors appointed by the Employer if so required by the Employer.

24. Maintenance

24.1 The contractor shall maintain the site offices after defect liability period of 12 months for a period of 5 years. The contractor will be paid quarterly (every three month) for carrying out the maintenance services after duly certification by the Office –in- charge as per the rates in BOQ.

25. Dispute and Arbitration

25.1 Dispute Resolution

(i) Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the “Dispute”) shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure set forth in Clause 25.2.

(ii) The Parties agree to use their best efforts for resolving all Disputes arising under or in respect of this Agreement promptly, equitably and in good faith, and further agree to provide each other with reasonable access during normal business hours to all non- privileged records, information and data pertaining to any Dispute.

25.2 Conciliation

In the event of any Dispute between the Parties, either Party may call upon the Authority's Engineer, or such other person as the Parties may mutually agree upon (the "Conciliator") to mediate and assist the Parties in arriving at an amicable settlement thereof. Failing mediation by the Conciliator or without the intervention of the Conciliator, either Party may require such Dispute to be referred to the Chairman of the Authority and the Chairman of the Board of Directors of the Contractor for amicable settlement, and upon such reference, the said persons shall meet no later than 7 (seven) business days from the date of reference to discuss and attempt to amicably resolve the Dispute. If such meeting does not take place within the 30 (thirty) business day period or the Dispute is not amicably settled within 30 (thirty) days of the meeting or the Dispute is not resolved as evidenced by the signing of written terms of settlement within 30 (thirty) days of the notice in writing referred to in Clause 25.1. or such longer period as may be mutually agreed by the Parties, either Party may refer the Dispute to arbitration in accordance with the provisions of Clause 25.3 but before resorting to such arbitration, the parties agree to explore conciliation by the Conciliation Committees of Independent Experts set up by the Authority in accordance with the procedure decided by the panel of such experts and notified by the Authority on its website including its subsequent amendments. In the event of the conciliation proceedings being successful, the parties to the dispute would sign the written settlement agreement and the conciliators would authenticate the same. Such settlement agreement would then be binding on the parties in terms of Section 73 of the Arbitration Act. In case of failure of the conciliation process even at the level of the Conciliation Committee, either party may refer the Dispute to arbitration in accordance with the provisions of Clause 25.3.

25.3 Arbitration

- (i) Any dispute which remains unresolved between the parties through the mechanisms available/ prescribed in the Agreement, irrespective of any claim value, which has not been agreed upon/ reached settlement by the parties, will be referred to the Arbitral Tribunal as per the Arbitration and Conciliation Act.
- (ii) Deleted
- (iii) The Arbitral Tribunal shall make a reasoned award (the "Award"). Any Award made in any arbitration held pursuant to this Clause 25 shall be final and binding on the Parties as from the date it is made, and the Contractor and the Authority agree and undertake to carry out such Award without delay.
- (iv) The Contractor and the Authority agree that an Award may be enforced against the Contractor and/or the Authority, as the case may be, and their respective assets wherever situated.
- (v) This Agreement and the rights and obligations of the Parties shall remain in full force and effect, pending the Award in any arbitration proceedings hereunder. Further, the parties unconditionally acknowledge and agree that notwithstanding any dispute between them, each Party shall proceed with the performance of its respective obligations, pending resolution of Dispute in accordance with this Article.
- (vi) In the event the Party against whom the Award has been granted challenges the Award for any reason in a court of law, it shall make an interim payment to the other Party for an amount equal to 75% (seventy five per cent) of the Award, pending final settlement of the Dispute. The aforesaid amount shall be paid forthwith upon furnishing an irrevocable Bank Guarantee for a sum equal to 120 % (one hundred and twenty per cent) of the aforesaid

amount. Upon final settlement of the Dispute, the aforesaid interim payment shall be adjusted and any balance amount due to be paid or returned, as the case may be, shall be paid or returned with interest calculated at the rate of 10% (ten per cent) per annum from the date of interim payment to the date of final settlement of such balance.

25.4 Adjudication by Regulatory Authority, Tribunal or Commission

In the event of constitution of a statutory regulatory authority, tribunal or commission, as the case may be, with powers to adjudicate upon disputes between the Contractor and the Authority, all Disputes arising after such constitution shall, instead of reference to arbitration under Clause 25.3, be adjudicated upon by such regulatory authority, tribunal or commission in accordance with the Applicable Law and all references to Dispute Resolution Procedure shall be construed accordingly. For the avoidance of doubt, the Parties hereto agree that the adjudication hereunder shall not be final and binding until an appeal against such adjudication has been decided by an appellate tribunal or court of competent jurisdiction, as the case may be, or no such appeal has been preferred within the time specified in the Applicable Law.

26 Deleted

B. Time Control

27. Programme

27.1 The Engineer shall issue all the site locations to the contractor immediately after signing of agreement. The Contractor shall submit to the Engineer for approval a programme within the time stipulated in the Contract Data showing the general methods, location of utilities, arrangements, order, and timing for all the activities in the Works, along with monthly cash flow forecasts.

27.2 An update of the Programme shall be a programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining Works, including any changes to the sequence of the activities.

27.3 The Contractor shall submit to the Engineer for approval an updated Programme at intervals. If the Contractor does not submit an updated Programme within this period, the Engineer may withhold the amount stated in the Contract Data from the next payment certificate and continue to withhold this amount until the next payment after the date on which the overdue Programme has been submitted.

27.4 The Engineer's approval of the Programme shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Engineer again at any time. A revised Programme shall show the effect of Variations and Compensation Events.

28. Extension of the Intended Completion Date

28.1 The Engineer shall extend the Intended Completion Date only after the approval of NHIDCL if a Compensation Event occurs or a Variation is issued which makes it impossible for Completion to be achieved by the Intended Completion Date without the Contractor taking steps to accelerate the remaining Works, which would cause the Contractor to incur additional cost.

28.2 The Engineer shall decide whether and by how much time to extend the Intended Completion Date within 21 days of the Contractor asking the Engineer for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the new intended Completion Date.

29. Delays Ordered by the Engineer

29.1 The Engineer may instruct the Contractor to delay the start or progress of any activity within the Works.

30. Management Meetings

30.1 **Either the Engineer or the Contractor may require the other** to attend a management meeting. The business of a management meeting shall be to review the plans for the remaining Works and to deal with matters raised in accordance with the early warning procedure.

30.2 The Engineer shall record the business of management meetings and provide copies of the record to those attending the meeting. The responsibility of the parties for actions to be taken shall be decided by the Engineer either at the management meeting or after the management meeting and stated in writing to all those who attended the meeting.

C. Quality Control

31. Identifying Defects

31.1 The Engineer shall check the Contractor's work and notify the Contractor of any Defects that are noticed. Such checking shall not absolve the contractor from its obligations and its responsibilities. The Engineer may instruct the Contractor to search for a Defect and to uncover and test any work (existing work/work executed by the contractor) that the Engineer considers may have a Defect.

32. Tests

32.1 The contractor shall be solely responsible for:

- a. Carrying out the mandatory tests prescribed in the technical specifications forming part of contract.
- b. For the correctness of the test results, whether preformed in his laboratory or elsewhere.
- c. The Authority may engage third party for testing of executed items. The payment for the same would be made by the Authority.

32.2 If the Engineer instructs the Contractor to carry out a test not specified in the Specification to check whether any work (executed by the contractor) has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no defect, the cost of such tests shall be borne by the Authority otherwise by the Contractor.

33. Correction of Defects noticed during the Defect Liability Period.



- 33.1 The Engineer shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.
- 33.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the reasonable time specified by the Engineer's notice as per good industry practice. If any defect including shrinkage cracks, other faults appears in the work within defect liability period, the Engineer shall give Notice to the Contractor of such defects before end of defect liability period and shall extend the defect liability period as long as defects remain to be corrected.

34. Uncorrected Defects/ Incomplete Works

- 34.1 If the Contractor has not corrected the Defect, to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, the Engineer will assess the cost of having the Defect corrected and get the defects rectified through some other agency and the Contractor will pay 1.2 times of this amount.
- 34.2 If the Contractor has not completed the work to the satisfaction of the Engineer, within the time specified in the Engineer's notice/indent, in no case exceeding one month, the Engineer will assess the cost of having the work completed and get the work completed through some other agency and the Contractor will pay this amount in addition to the damages specified as per clause 45.

D. Cost Control

35. Bill of Quantities

- 35.1 The Bill of Quantities shall contain items for the procuring, shifting/laying installation, testing, and commissioning and maintaining works to be done by the Contractor.
- 35.2 The Bill of Quantities is used to calculate the Contract Price. The Contractor is paid as per clause 40.2 for the quantity of the work done at the rates in the Bill of Quantities for each item for the work executed.
- 35.3 **Changes in the Quantities**

- (i) The quantities mentioned in Bill of Quantities may vary for which variations as per clause 36 will be issued.
- (ii) Also the Engineer may instruct the contractor for increase in area of Office cum Residence for which payment as per clause 37.4 will be released.

36. Variations

- 36.1 All variations shall be included in updated programmes produced by the Contractor. The Engineer shall, having regard to the scope of the Works and the sanctioned estimated cost, have power to order +/- 50% of original BOQ value of single BOQ item subject to maximum of +/- 25% of original Contract value.

37. Payments for Variations



- 37.1** If rates for Variation items are specified in the Bill of Quantities, the Contractor shall carry out such work at the same rate.
- 37.2** If the rates for Variation are not specified in the Bill of Quantities, the Engineer shall derive the rate from similar items in the Bill of Quantities and if it cannot be derived from similar item in Bill of Quantities then the rate will be derived as per Clause 37.3.
- 37.3** The Contractor shall, within 14 days of the issue of order of Variation work, inform the Engineer the rate which he proposes to claim, supported by analysis of the rates. The Engineer shall assess the quotation and determine the rate based on prevailing market rates within one month of the submission of the claim by the Contractor and approval from NHIDCL will be taken. As far as possible, the rate analysis shall be based on the standard data book and the current schedule of rates of the district public works division.

38. Cash Flow Forecasts

- 38.1** When the Programme is updated, the Contractor shall provide the Engineer with an updated cash flow forecast.

39. Payment Certificates

- 39.1** The Contractor shall submit to the Engineer in accordance of clause 40.2 the value of the work executed with supporting documents such as invoice of purchase items.
- 39.2** The Engineer shall check the Contractor's statement within 7 days and certify the amount to be paid to the Contractor after taking into account any credit or debit for the month in question.
- 39.3** The value of work executed shall be determined, based on measurements by the Engineer.
- 39.4** The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 39.5** The value of work executed shall also include the valuation of Variations and Compensation Events.
- 39.6** The Engineer may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information to rectify the mistakes with detail justification acceptable to Employer.
- 39.7** The final bill shall be submitted by the contractor within one month of the actual date of completion of the work; otherwise the Engineers certificate of the measurement and of the total amount payable for work accordingly shall be final and payment made accordingly within a period of sixty days.

40. Payments

40.1 Payments shall be adjusted for deductions for advance payments, security deposit, other recoveries in terms of the Contract and taxes at source, as applicable under the law. The Employer shall pay the Contractor the amounts Engineer had certified within 14 days of the date of each certificate.

40.2 The contractor shall submit to the Engineer bill in two copies after the completion of stage given in table below:

S No	Description of Item	Payment Procedure
1.	Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu	1. 40% payment after the delivery of approved material. 2. 30% payment after successful installation/ erection of utility as per the scope including dismantling the existing utilities.
2.	Shifting of Water Supply Pipelines under PHE Division Akhnoor	3. 30% payment after successful Testing & Commissioning and handing over of the works.

Note:

1. All the materials used for this work shall be of Indian Origin.
2. Contractor will be required to submit copies of all the Tax paid Invoices for purchase of materials, machines, equipment and furniture for this work.
3. Transportation cost for all the material, manpower and equipment are deemed included in the rates.

41. Compensation Events

41.1 The following shall be Compensation Events unless they are caused by the Contractor:

- a) The Employer modifies the Schedule of other contractors in a way which affects the work of the contractor under the Contract.
- b) The Engineer orders a delay or does not issue drawings, specifications or instructions required for execution of works in reasonable time.
- c) The Engineer instructs the Contractor to uncover or to carry out additional tests upon work which is then found to have no defects.
- d) The Engineer gives an instruction for dealing with an unforeseen condition, caused by the Employer, or additional work required for safety or other reasons.
- e) Other contractors, public authorities, utilities or the Employer does not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor.
- f) The effect on the Contractor of any of the Employer's Risks.

41.2 If a Compensation Event would prevent the Works being completed before the Intended Completion Date, the Intended Completion Date shall be extended. The Engineer shall decide whether and by how much the Intended Completion Date shall be extended after the approval of the employer.

41.3 The contractor shall not be entitled to compensation to the extent that the Employer's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Engineer/Employer.

42. Currencies for payments

42.1 All payments will be made in Indian Rupees.

43. Deleted

44. Security Deposit / Retention Money

44.1 The Employer shall retain security deposit of five percent of the amount from each payment due to the Contractor until Completion of the whole of the Works.

44.2 The security deposit/retention money and the performance security will be released to the Contractor when the Defect Liability period is over, and the Engineer has certified that the Defects, if any, notified by the Engineer to the Contractor before the end of this period have been corrected.

44.3 If the contractor so desires then the Security Deposit/retention money can be released on submission of unconditional Bank Guarantee at the following two stages:-

- (a) At a point after the progress of work in financial term (gross value of work done) has reached 50% of the contract amount
- (b) After the retention money has been deducted to the full value (5% of the Contract Amount).

45. Liquidated Damages

45.1 The Contractor shall pay liquidated damages to the Employer at the rate or part thereof stated in the Contract Data for each day that the Completion Date is later than the Intended Completion Date. The total amount of liquidated damages shall not exceed the amount defined in the Contract Data. The Employer may deduct liquidated damages from payments due to the Contractor and/ or Performance Bank Guarantee. Payment of liquidated damages shall not affect the Contractor's other liabilities.

45.2 If the Intended Completion Date is extended after liquidated damages have been paid, the Engineer shall correct any overpayment of liquidated damages by the Contractor by adjusting in the next payment certificate. The contractor shall not be paid interest on the over payment of liquidated damages.

46. Deleted

47. Securities

47.1 Subject to further condition in contract data, the Performance Security equal to five percent of the contract price shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in the form given in the Contract Data and by a prescribed bank. The Performance Security shall be valid until a date 28 days after the expiry of Defect Liability Period. The validity shall account for additional 45 days time to account for BG verification, signing of contract and start date



48 Cost of Repairs

- 48.1** Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability Period shall be remedied/ rectified by the Contractor at their cost if the loss or damage arises from the Contractor's acts or omissions.

E. Finishing the Contract

49. Completion

- 49.1** When the whole of the works has been completed as per the provision of the Contract, the Contractor shall request the Engineer to issue a certificate of Completion of the Works. The Engineer shall, within 14 days of the date of receipt of such request, either issue to the Contractor, with a copy to the Employer, a completion certificate, stating the date on which, the works were completed in accordance with the contract, or give instructions in writing to the contractor specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such certificate.

50. Taking Over

- 50.1** The Employer shall take over the Site and the Works within fifteen days of the Engineer's issuing a certificate of Completion.

51. Final Account

- 51.1** The Contractor shall supply to the Engineer with a detailed account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Engineer shall issue a Defects Liability Certificate and certify any final payment that is due to the Contractor within 56 days of receiving the Contractor's account if it is correct and complete. If it is not, the Engineer shall issue within 56 days a schedule that states the scope of the corrections or additions that are necessary. If the Final Account is still unsatisfactory after it has been resubmitted, the Engineer shall decide on the amount payable to the Contractor and issue a payment certificate within 56 days of receiving the Contractor's revised account.

52. "As built" Drawings

- 52.1** Contractor is required to submit As built drawing for the work executed before release of final payment.

53. Termination/Foreclosure

- 53.1** The Employer may terminate the Contract if the Contractor causes a fundamental breach of the Contract.

- 53.2** Fundamental breaches of Contract include, but shall not be limited to, the following:

- a) the Contractor stops work for 28 days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Engineer;
- b) the Contractor is declared as bankrupt or goes into liquidation other than for approved reconstitution or amalgamation;
- c) the Engineer/Employer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- d) the Contractor does not maintain a Security, which is required;
- e) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of liquidated damages can be paid, as defined in clause 45;
- f) the Contractor fails to provide insurance cover as required under clause 13;
- g) If the Contractor, in the judgement of the Employer, has engaged in the corrupt or fraudulent practice in competing for or in executing the Contract. For the purpose of this paragraph, “**Corrupt practice**” means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bidding 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 Bidding Process, 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 Bidding Process);
- h) “**Fraudulent practice**” means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bidding Process; if the Contractor has not completed at least thirty percent of the value of Work required to be completed after half of the completion period has elapsed;
- i) if the Contractor fails to set up a field laboratory with the prescribed equipment, within the period specified; and
- j) any other fundamental breach as specified in the Contract Data.

53.3 Without prejudice to any other right or remedies which the Employer may have under this contract, upon occurrence of a Contractor’s fundamental breach of contract, the Employer shall be entitled to terminate this contract by issuing a Termination Notice to the Contractor ; provided that before issuing the Termination Notice, the Employer shall by a Notice inform the Contractor of its intention to issue such Termination Notice and grant 15 days to the Contractor to make a representation, and may after the expiry of such 15 days, whether or not it is in receipt of such representation, issue the Termination Notice.

53.4 Notwithstanding the above, the Employer may terminate the Contract for convenience.

53.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as reasonably possible but in no case later than 7 days.

53.6 Foreclosure- NHIDCL may foreclose the contract before the expiry of the scheduled contract period due to administrative decision by giving one month Notice.

54. Payment upon Termination / Foreclosure

54.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate and less the percentage to apply to the value of the work not completed, as indicated in the Contract Data. Additional Liquidated Damages shall not apply. If the total amount due to the Employer exceeds any payment due to the Contractor, the difference shall be a debt payable to the Employer and Employer may recover the same from Performance Bank Guarantee.

55. Property

55.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Employer for use for completing balance work if the Contract is terminated because of the Contractor's fundamental breach of contract.

56. Release from Performance

56.1 If the Contract is frustrated by the outbreak of war or by any other event entirely outside the control of the Employer or the Contractor, the Engineer shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all work carried out before receiving it and for any work carried out afterwards to which a commitment was made.

F. Other Conditions of Contract

57. Labour

57.1 The Contractor shall, make arrangements of his own cost and expenses for the engagement of all staff and labour, local or others; for their payment, housing, feeding and transport; and for compliance with various labour laws/ regulations.

57.2 The Contractor shall, as asked by the Engineer, deliver to the Engineer a return in detail, in such form and at such intervals as the Engineer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the Contractor on the Site and such other information as the Engineer may require.

58. COMPLIANCE WITH LABOUR REGULATIONS

58.1 During the currency of the Contract, the Contractor and his sub Contractors shall abide at all times by all existing labour enactments and rules made thereunder, regulations, notifications and bye laws of the State or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be notified already or that may be notified under any labour law in future either by the State or the Central Government or the local authority. Salient features of some of the major labour laws that are applicable to construction industry are given below. The Contractor shall keep the Employer indemnified in case any action is taken against the Employer by the competent authority on account of contravention of any of the provisions of any Act or rules made thereunder, regulations or notifications including amendments. If the Employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe, or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including

amendments, if any, on the part of the Contractor, the Engineer/Employer shall have the right to deduct any money due to the Contractor including from his performance security/ retention money. The Employer/Engineer shall also have right to recover from the Contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer. The employees of the Contractor and the Sub-Contractor in no case shall be treated as the employees of the Employer at any point of time.

58.2 SALIENT FEATURES OF SOME MAJOR LABOUR LAWS APPLICABLE TO ESTABLISHMENTS ENGAGED IN BUILDING AND OTHER CONSTRUCTION WORK.

- a) **Workmen Compensation Act 1923:** - The Act provides for compensation in case of injury by accident arising out of and during the course of employment.
- b) **Payment of Gratuity Act 1972:** - Gratuity is payable to an employee under the Act on satisfaction of certain conditions on separation if an employee has completed the prescribed minimum years (say, five years) of service or more or on death the rate of prescribed minimum days' (say, 15 days) wages for every completed year of service. The Act is applicable to all establishments employing the prescribed minimum number (say, 10) or more employees.
- c) **Employees P.F. and Miscellaneous Provision Act 1952:** The Act Provides for monthly contributions by the Employer plus workers at the rate prescribed (say, 10% or 8.33%). The benefits payable under the Act are:
 - i. Pension or family pension on retirement or death as the case may be.
 - ii. Deposit linked insurance on the death in harness of the worker.
 - iii. Payment of P.F. accumulation on retirement/death etc.
- d) **Maternity Benefit Act 1951:** - The Act provides for leave and some other benefits to women employees in case of confinement or miscarriage etc.
- e) **Contract Labour (Regulation & Abolition) Act 1970:** - The Act provides for certain welfare measures to be provided by the Contractor to contract labour and in case the Contractor fails to provide, the same are required to be provided, by the Principal Employer by Law. The principal Employer is required to take Certificate of Registration and the Contractor is required to take license from the designated Officer. The Act is applicable to the establishments or Contractor of Principal Employer if they employ prescribed minimum (say 20) or more contract labour.
- f) **Minimum Wages Act 1948:-** The Employer is to pay not less than the Minimum Wages fixed by appropriate Government as per provisions of the Act if the employment is a scheduled employment. Construction of buildings, roads, runways is scheduled employment.
- g) **Payment of Wages Act 1936:** - It lays down as to by what date the wages are to be paid, when it will be paid and what deductions can be made from the wages of the workers.
- h) **Equal Remuneration Act 1979:** - The Act provides for payment of equal wages for work of equal nature to male and female workers and for not making discrimination against female employees in the matters of transfers, training and promotions etc.



- i) **Payment of Bonus Act 1965:** - The Act is applicable to all establishments employing prescribed minimum (say, 20) or more workmen. The Act provides for payments of annual bonus within the prescribed range of percentage of wages to employees drawing up to the prescribed amount of wages, calculated in the prescribed manner. The Act does not apply to certain establishments. The newly set-up establishments are exempted for five years in certain circumstances. States may have different number of employment size.
- j) **Industrial Disputes Act 1947:** - The Act lays down the machinery and procedure for resolution of industrial disputes, in what situations a strike or lock-out becomes illegal and what are the requirements for laying off or retrenching the employees or closing down the establishment.
- k) **Industrial Employment (Standing Orders) Act 1946:** - It is applicable to all establishments employing prescribed minimum (say, 100, or 50). The Act provides for laying down rules governing the conditions of employment by the Employer on matters provided in the Act and get these certified by the designated Authority.
- l) **Trade Unions Act 1926:** - The Act lays down the procedure for registration of trade unions of workmen and Employers. The Trade Unions registered under the Act have been given certain immunities from civil and criminal liabilities.
- m) **Child Labour (Prohibition & Regulation) Act 1986:** - The Act prohibits employment of children below 14 years of age in certain occupations and processes and provides for regulations of employment of children in all other occupations and processes. Employment of child labour is prohibited in building and construction industry.
- n) **Inter-State Migrant Workmen's (Regulation of Employment & Conditions of Service) Act 1979:** - The Act is applicable to an establishment which employs prescribed minimum (say, five) or more inter-state migrant workmen through an intermediary (who has recruited workmen in one state for employment in the establishment situated in another state). The Inter-State migrant workmen, in an establishment to which this Act becomes applicable, are required to be provided certain facilities such as Housing, Medical-Aid, Travelling expenses from home up to the establishment and back etc.
- o) **The Building and Other Construction workers (Regulation of Employment and Conditions of Service) Act 1996 and the Cess Act of 1996:** - All the establishments who carry on any building or other construction work and employs the prescribed minimum (say, 10) or more workers are covered under this Act. All such establishments are required to pay cess at the rate not exceeding 2% of the cost of construction as may be modified by the Government. The Employer of the establishment is required to provide safety measures at the building or construction work and other welfare measures, such as canteens, first-aid facilities, ambulance, housing accommodations for workers near the work place etc. The Employer to whom the Act applies has to obtain a registration certificate from the Registering Officer appointed by the Government.
- p) **Factories Act 1948:** - The Act lays down the procedure for approval of plans before setting up a factory, health and safety provisions, welfare provisions, working hours, annual earned leave and rendering information regarding accidents or dangerous occurrences to designated authorities. It is applicable to premises employing the prescribed minimum (say, 10) persons or more with aid of power or another prescribed minimum (say, 20) or more persons without the aid of power engaged in manufacturing process.



59. Drawings and Photographs of the Works

- 59.1** The contractor shall do photography/videography of the site firstly before the start of the work, secondly mid-way in the execution of different stages of work and lastly after the completion of the work. No separate payment will be made to the contractor for this.
- 59.2** The Contractor shall not disclose details of Drawings furnished to him and works on which he is engaged without the prior approval of the Engineer in writing. No photograph of the works or any part thereof or plant employed thereon, shall be taken or permitted to be taken by the Contractor or by any of his employees or any employees of his sub-Contractors without the prior approval of the Employer in writing. No photographs/ Videography shall be published or otherwise circulated without the approval of the Employer in writing.

Contract Data

Clause Reference

Items marked “N/A” do not apply in this Contract.

1.1

- | | | |
|------|--|-----------------|
| 1. | The Employer is
Managing Director, NHIDCL
Name of authorized Representative: Executive Director (P), NHIDCL
Regional Office-Jammu
House no. 261, Sector -06, Channi Himmat, Jammu, 180015 | [Cl.1.1] |
| 2. | The Engineer is:
Designation: General Manager (Project)
PMU-Akhnoor | [Cl.1.1] |
| 3. | The Intended Completion Date for the whole of the Works is 3 months from start date. | [Cl.1.1, 17&28] |
| 4. | Site is located <u>in the UT of Jammu & Kashmir.</u> | [Cl.1.1] |
| 5. | The Start Date shall be within 7 days after the date of issue of the Notice to proceed with the work. | [Cl.1.1] |
| 6. | (a) The name and identification number of the Contract “ <i>Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir</i> ” | [Cl.1.1] |
| 3.1 | (a) The law which applies to the Contract is the law of Union of India. | [Cl.3.1] |
| | (b) The language of the Contract documents is English | [Cl.3.1] |
| 7.1 | The limit of subcontracting is 50% | [Cl.7.1] |
| 8.1 | Schedule of Other Contractor – NIL | [Cl 8.1] |
| | 13.1. Amount for insurance are: | [Cl.13.1] |
| | a) Rupees equivalent to Contract price. | |
| | b) Rupees equivalent to 5% of Contract price. | |
| | c) Rupees equivalent to 5% of contract price | |
| | d) Rupees 20 lakhs for multiple incidents. | |
| | And deductible as per premium rate. | |
| 14.1 | Site Investigation Report – NIL | [Cl 14.1] |

27.3 Amount to be withheld for delays in submission of updated programme: Rs. 10,000 per day

33. The Defects Liability Period for all items under the work is **12 months** from the date of completion of the works.

45.1 (a) Amount of liquidated damages for delay in completion of works

0.05 percent of the Contract price, rounded off to the nearest thousand, per day with the minimum of Rs. 100000/- per day

(b) Maximum limit of liquidated damages for delay in completion of work.

5 per cent of the Initial Contract Price rounded off to the nearest thousand

[Cl.45.1]

47.1. The standard form of Performance Security acceptable to the Employer shall be an unconditional Bank Guarantee of the type as specified in the Bidding Documents.

[Cl. 47.1]

54.1. The percentage to apply to the value of work not completed representing the Employer's additional cost for completing the work shall be 20%.

[Cl.54.1]

SECTION - VI

Scope of work, Technical specifications and Drawings

The Scope of Work includes *Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir*. The detailed scope of work shall include the following but not limited to:

a) For shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu:

Shifting of Public Health Engineering Department pipe lines 100mm i/d, 150mm i/d 200mm i/d 250mm i/d, 300mm i/d outside the proposed widening of the Highways under the Jurisdiction of Public Health Engg. City Division No. 01 Jammu Chain age from 06+000 to 08+440 Crossing the village location Muthi, Rajori Lines, Army School Netor Kottion, Barnai, Lower Barnai, Jan Ganga Tyre, Jalsa Resort Distric Jammu, Jammu & Kashmir.

S. No.	DESCRIPTION	Unit	Qty	Rate	Amount
1	Earth work in excavation by manual means in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 10 sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed:				
	2.8.1 All kinds of soil :				
	6370 x 1 x 2 = 12740 cum 70% = 8918 cum	cum	8918.00	₹ 436.00	₹ 38,88,248.00
2	Earth work in excavation by mechanical means (hydraulic excavator) in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, s, cesspits and the like not exceeding 10 sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed, within a lead of 50 metres:				
	2.9.1 All kinds of soil :				
	6370x1x2=12740 cum 30% = 3822 cum	cum	3822.00	₹ 252.05	₹ 9,63,335.10
3	Extra for every additional lift of 1.5 m or part thereof in excavation/banking excavated or stacked material :				
	2.10.1 All kinds of soil :				
	4459 x 1.0 x 0.5 = 2229.5 for 2.8 item	cum	2229.50	₹ 81.65	₹ 1,82,038.68
	1911 x 1.0 x 0.5 = 955.50 for 2.9 item	cum	955.50	₹ 81.65	₹ 78,016.58

4	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m. (95% of total earth work)	cum	12103.00	₹ 198.70	₹ 24,04,866.10
5	Providing and laying S&S Centrifugally Cast (Spun)/ Ductile Iron Pipes conforming to IS : 8329				
(i)	100 mm dia Ductile Iron Class K - 7 Pipes	meter	610.00	₹ 1,108.15	₹ 6,75,971.50
(ii)	150 mm dia Ductile Iron Class K - 7 Pipes	meter	1070.00	₹ 1,581.25	₹ 16,91,937.50
(iii)	200 mm dia Ductile Iron Class K - 7 Pipes	meter	3100.00	₹ 1,947.00	₹ 60,35,700.00
(iv)	250 mm dia Ductile Iron Class K - 7 Pipes	meter	1250.00	₹ 2,504.80	₹ 31,31,000.00
(v)	300 mm dia Ductile Iron Class K - 7 Pipes	meter	340.00	₹ 3,129.20	₹ 10,63,928.00
6	Providing and laying Double Flanged (Screwed/ Welded) Centrifugally (Spun) Ductile Iron Pipes of Class K-9 conforming to IS : 8329				
(i)	100 mm dia Ductile Iron Double Flanged (for crossing)	meter	35.00	₹ 1,525.25	₹ 53,383.75
(ii)	150 mm dia Ductile Iron Double Flanged (for crossing)	meter	0.00	₹ -	₹ -
(iii)	200 mm dia Ductile Iron Double Flanged (for crossing)	meter	210.00	₹ 2,884.75	₹ 6,05,797.50
(iv)	250 mm dia Ductile Iron Double Flanged (for crossing)	meter	70.00	₹ 4,092.75	₹ 2,86,492.50
(v)	300 mm dia Ductile Iron Double Flanged (for crossing)	meter	70.00	₹ 5,258.40	₹ 3,68,088.00
7	Providing and laying D.I. Specials of Class K-12 suitable for mechanical jointing as per IS : 9523				
	Upto 600 mm dia	quintal	315.00	₹17,925.15	₹ 56,46,422.25
8	Providing push-on-joints to Centrifugally (Spun) Cast Iron Pipes or Ductile Iron Pipes including testing of joints and including the cost of rubber gasket.				
	100 mm dia Ductile Iron Class K - 7 Pipes	each	122.00	₹ 89.70	₹ 10,943.40
	150 mm dia Ductile Iron Class K - 7 Pipes	each	214.00	₹ 144.70	₹ 30,965.80
	200 mm dia Ductile Iron Class K - 7 Pipes	each	620.00	₹ 213.00	₹ 1,32,060.00
	250 mm dia Ductile Iron Class K - 7 Pipes	each	250.00	₹ 259.90	₹ 64,975.00
	300 mm dia Ductile Iron Class K - 7 Pipes	each	68.00	₹ 340.25	₹ 23,137.00
9	Providing and fixing C.I. sluice valves (with cap) complete ith bolts, nuts, rubber insertions etc. (the tail pieces if uired will be paid separately).				
(i)	100 mm dia Class I	Each	2.00	₹ 4,597.85	₹ 9,195.70
(ii)	150 mm dia Class I	Each	1.00	₹ 6,508.50	₹ 6,508.50
(iii)	200 mm dia Class I	Each	15.00	₹11,095.35	₹ 1,66,430.25
(iv)	250 mm dia Class I	Each	2.00	₹17,058.75	₹ 34,117.50
(v)	300 mm dia Class I	Each	5.00	₹21,118.35	₹ 1,05,591.75
10	Providing and laying D.I. Specials of Class K-12 suitable for push-on jointing as per IS : 9523				
	19.59.1 Upto 600 mm dia.	quintal	267.00	₹17,055.50	₹ 45,53,818.50

11	Disinfecting C.I. water mains by flushing with water containing bleaching powder @ 0.5 gms per liter of water and cleaning the same with fresh water, operation to be repeated three times including getting the sample of water from the disinfected main tested in the municipal laboratory.				
	100 mm dia Ductile Iron Class K - 7 Pipes	100 meter	610.00	₹ 1,657.90	₹ 10,113.19
	150 mm dia Ductile Iron Class K - 7 Pipes	100 meter	1070.00	₹ 2,494.85	₹ 26,694.90
	200 mm dia Ductile Iron Class K - 7 Pipes	100 meter	3100.00	₹ 3,336.30	₹ 1,03,425.30
	250 mm dia Ductile Iron Class K - 7 Pipes	100 meter	1250.00	₹ 4,204.30	₹ 52,553.75
	300 mm dia Ductile Iron Class K - 7 Pipes	100 meter	340.00	₹ 4,682.85	₹ 15,921.69
12	Constructing masonry Chamber of specified size, in brick work with common burnt clay (non modular) bricks of class designation 7.5 in cement mortar 1:4 (1cement :4 coarse sand) and R.C.C. top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size) including necessary excavation, foundation concrete 1:5:10 (1 cement :5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design.				
(i)	Chamber 120x120x100 cm	Each	35.00	₹21,462.85	₹ 7,51,199.75
13	Providing and erecting 2.00 metre high temporary barricading at site; each panel of size 2.50mx2.00m made of 40x40x6mm angle iron or 50x50x3mm hollow MS tube posts/horizontal members/bracings covered with 1.63mm thick MS sheet. The sheet shall be fixed with 30x5mm MS flat by suitable welding/riveting. The panels shall be made so that gap of 50cm above the ground is available making overall height as 2.5m. MS channel ISLC75 @ 5.70 kg/m, 50cm long shall be provided at the bottom having oval shaped holes of size 50x25mm at both ends with 50cm long MS angle 40x40x6mm bracing. Suitable arrangement shall be made to fix the barricading to avoid from overturning by providing 250mm long expansion fasteners at both ends. The work shall be executed as per drawing/direction of Engineer-in-Charge which includes writing and painting, arrangement for traffic diversion such as traffic signals during construction at site for day and night, glow lamps, reflective signs, marking, flags, caution tape as directed by the Engineer-in-Charge. The barricading provided shall be retained in position at site continuously i/c shifting of barricading from one location to another location as many times as required during the execution of the entire work till its completion. Rate include its maintenance for damages, painting, all incidentals, labour materials, equipments and works required to execute the job. The barricading shall not be removed without prior approval of Engineer-in-Charge.				
	On both side of trench	meter	5433.60	₹ 2,677.70	₹ 1,45,49,550.72

14	CEMENT CONCRETE : Providing and laying in position cement concrete of				
(i)	1:3/2:3	Cum	200.00	₹ 6,624.80	₹ 13,24,960.00
15	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level				
(i)	Mild steel and medium tensile steel bars	Kg	19600.00	₹ 78.55	₹ 15,39,580.00
16	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if required will be paid separately).				
(i)	100mm dia	Each	3.00	₹ 8,184.25	₹ 24,552.75
17	Providing and fixing G.I. pipes complete with G.I. fittings excluding trenching and refilling etc. (external work)				
(i)	25 G.I. Pipe	meter	200.00	₹ 249.00	₹ 49,800.00
(ii)	40 G.I. Pipe	meter	200.00	₹ 386.05	₹ 77,210.00
(iii)	50 G.I. Pipe	meter	200.00	₹ 477.50	₹ 95,500.00
(iv)	65 G.I. Pipe	meter	200.00	₹ 628.45	₹ 1,25,690.00
(v)	80 G.I. Pipe	meter	200.00	₹ 773.15	₹ 1,54,630.00
18	Construction of R.C.C. Thrust blocks to take care of pressure at bends etc. (Civil Work)	Nos	50.00	₹21,874.67	₹ 0,93,733.72
19	Construction of R.C.C. Pedestal block to take care of pipe at near bridge side etc. (Civil Work)	Nos	13.00	₹21,874.67	₹ 2,84,370.77
20	Provision for shifting the existing house connection from existing line to proposed pipe lines 100mm dia and 150 mm dia with the cost of ferrule 6 mm i/d GI Union 15 mm and Bend and CPVC pipe 15 mm i/d from the proposed pipeline to up to 3 mtr. distance.	Each	280.00	₹ 2,952.32	₹ 8,26,649.60
21	Providing & fixing Fire Hydrants with jointing including all carriages complete. (without Fire Hydrant surface box) Size 80mm complete in all respect.				
	C.I Fire Hydrants S.V. Type IS-909	Each	10.00	₹11,887.03	₹ 1,18,870.30
22	Provision for crossing of NH through Trench technology complete in all respects as per analysis attached.	meter	385.00	₹41,435.52	₹ 1,59,52,675.20
23	Providing and fixing gun metal non-return valve of approved quality 200mm	Each	5.00	₹18,000.00	₹ 90,000.00
	Total Amount				₹ 6,94,80,650.48

b) For shifting of Water Supply Pipelines under PHE Division Akhnoor:

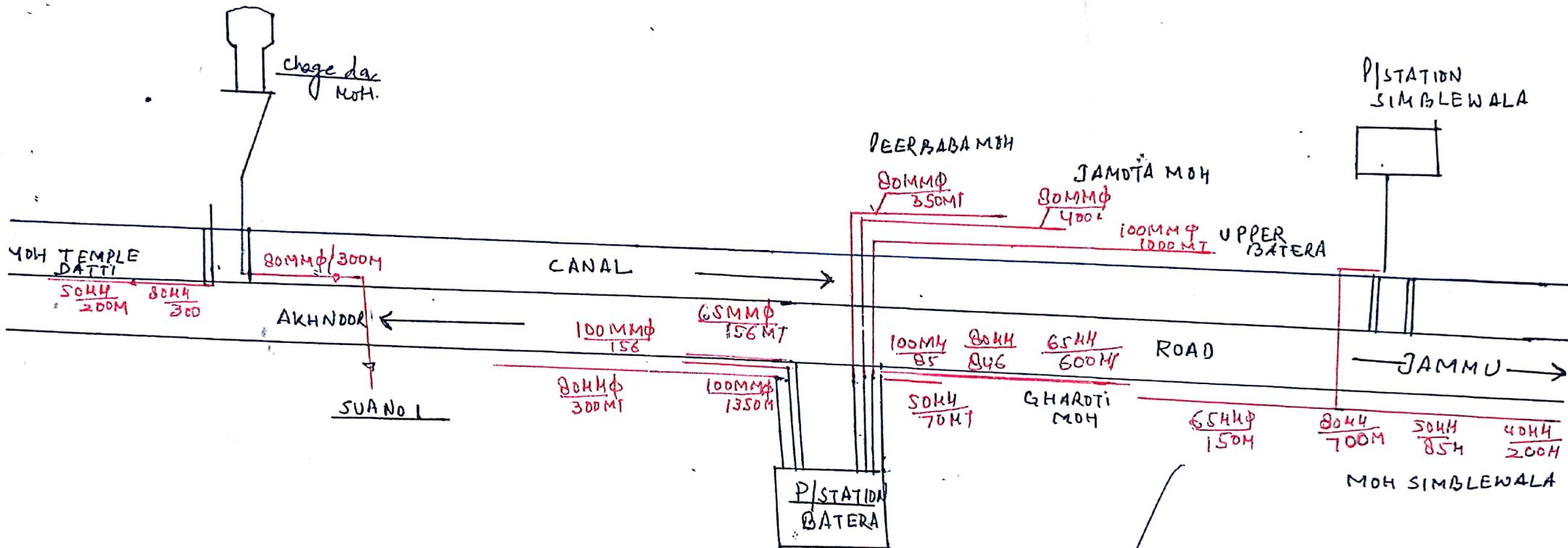
Shifting of Public Health Engineering Department pipe lines 100mm i/d outside the proposed widening of the Highways under the Jurisdiction of Public Health Engg. Division Akhnoor Chainage from 10+500 to 11+550 and 16+200 to 26+350 Crossing the village location Purkho, Kot, Balwal, OHT Pump House, Khadd, Simbalwali, Bhawati Palace, Shanti Home, Lambad Malla, Ashram, Bathera Chock, MG Motor, Mohoa Malla, Ek Number, PHE Station Dhumi, Ghudda Pattan, White

House, Dhabbi Malla, Jaloatra Malla, Bhawa House, GOVT. High School, Jandial Thathi Distric Akhnoor, Jammu & Kashmir.


S. No.	DESCRIPTION	Qty	Unit	Rate	Amount
1	Earth work in excavation by manual means in trenches for foundations, drains, pipes, cables etc. (not exceeding 1.5 m in width) and for shafts, wells, cesspits and the like not exceeding 10 sqm on plan, including dressing of sides and ramming of bottoms lift upto 1.5 m, including getting out excavated earth and disposal of surplus excavated earth as directed:				
	2.8.1 All kinds of soil :				
	12768 x 0.90 x 0.90 = 10342.08 cum; 100% = 10342.08 cum	10342.08	cum	₹ 436.00	₹ 45,09,146.88
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5m. (90% of total earth work)	9307.87	cum	₹ 163.95	₹ 15,26,025.61
3	Providing and laying S&S Centrifugally Cast (Spun)/ Ductile Iron Pipes conforming to IS: 8329				
	150 mm dia. G.I. pipes	100.00	meter	₹ 2,167.85	₹ 2,16785.00
	100 mm dia. G.I. pipes	4641	meter	₹ 1,135.35	₹ 52,69,159.35
	80 mm dia. G.I. pipes	4296	meter	₹ 773.15	₹ 33,21,452.40
	65 mm dia. G.I. pipes	2156	meter	₹ 628.45	₹ 13,54,938.20
	50 mm dia. G.I. pipes	805	meter	₹ 477.50	₹ 3,84,387.50
	40 mm dia. G.I. pipes	400	meter	₹ 386.05	₹ 1,54,420.00
	32 mm dia. G.I. pipes	120	meter	₹ 298.15	₹ 35,778.00
	25 mm dia. G.I. pipes	250	meter	₹ 249.00	₹ 62,250.00
4	Welding of Joints		L.S.		₹ -
5	Provision for shifting the existing house connection from existing line to proposed pipe lines.				
	25mm-40mm	50	Each	₹ 666.25	₹ 33,312.50
	above 50mm	150	Each	₹ 1,268.75	₹ 1,90,312.50
6	Providing & Fixing Sluice Valve				
	100mm	10	Each	₹ 4,597.85	₹ 45,978.50
	80mm	5	Each	₹ 3,102.75	₹ 15,513.75
	65mm	4	Each	₹ 2,131.05	₹ 8,524.20
	50mm	4	Each	₹ 1,297.60	₹ 5,190.40
7	Provision for crossing of NH through Trench technology complete in all respects as per analysis attached.	600.00	meter	₹41,435.52	₹ 2,48,61,312.00
				Total	₹ 4,19,94,486.79


- 2) All the works shall be completed as per the specifications of “**Public Health Engineering Department City Division No. 1 Jammu and Division Akhnoor, respectively**”, in the UT of J&K.
- 3) All the dismantled material shall be the property of contractor for which a fixed amount of Rs. 27,85,000.00/- (Rupees Twenty-Seven Lakh Eighty-Five Thousand Only) shall be deducted from the payable due to the contractor.
- 4) Payment for dismantled materials shall be deducted @ 2.5% of payable amount till Rs. 27,85,000.00/- (Rupees Twenty-Seven Lakh Eighty-Five Thousand Only) is deducted.

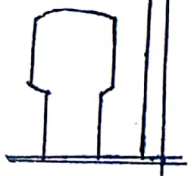
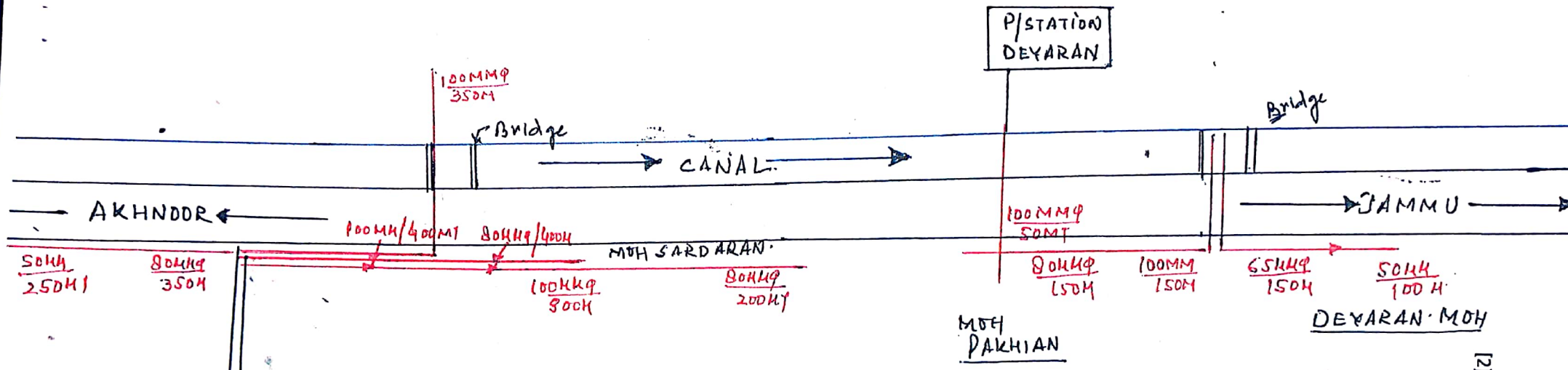
Drawings



$$\begin{aligned}
 100 \text{ MM } \phi &= 1350 + 156 + 1000 + 85 = 2591 \text{ M7} \\
 80 \text{ MM } \phi &= 300 + 300 + 300 + 350 + 400 + 846 + 700 = 3196 \text{ M7} \\
 65 \text{ MM } \phi &= 156 + 600 + 150 = 906 \text{ M7} \\
 50 \text{ MM } \phi &= 200 + 70 + 85 = 355 \text{ M7} \\
 40 \text{ MM } \phi &= 200 = 200 \text{ M7}
 \end{aligned}$$

 Executive Engineer
 PHE Division
 Akhnoor

 Asst. Executive Engineer
 PHE Sub Division
 Bhalwal



DHT AT
BAWE DA
TALAB

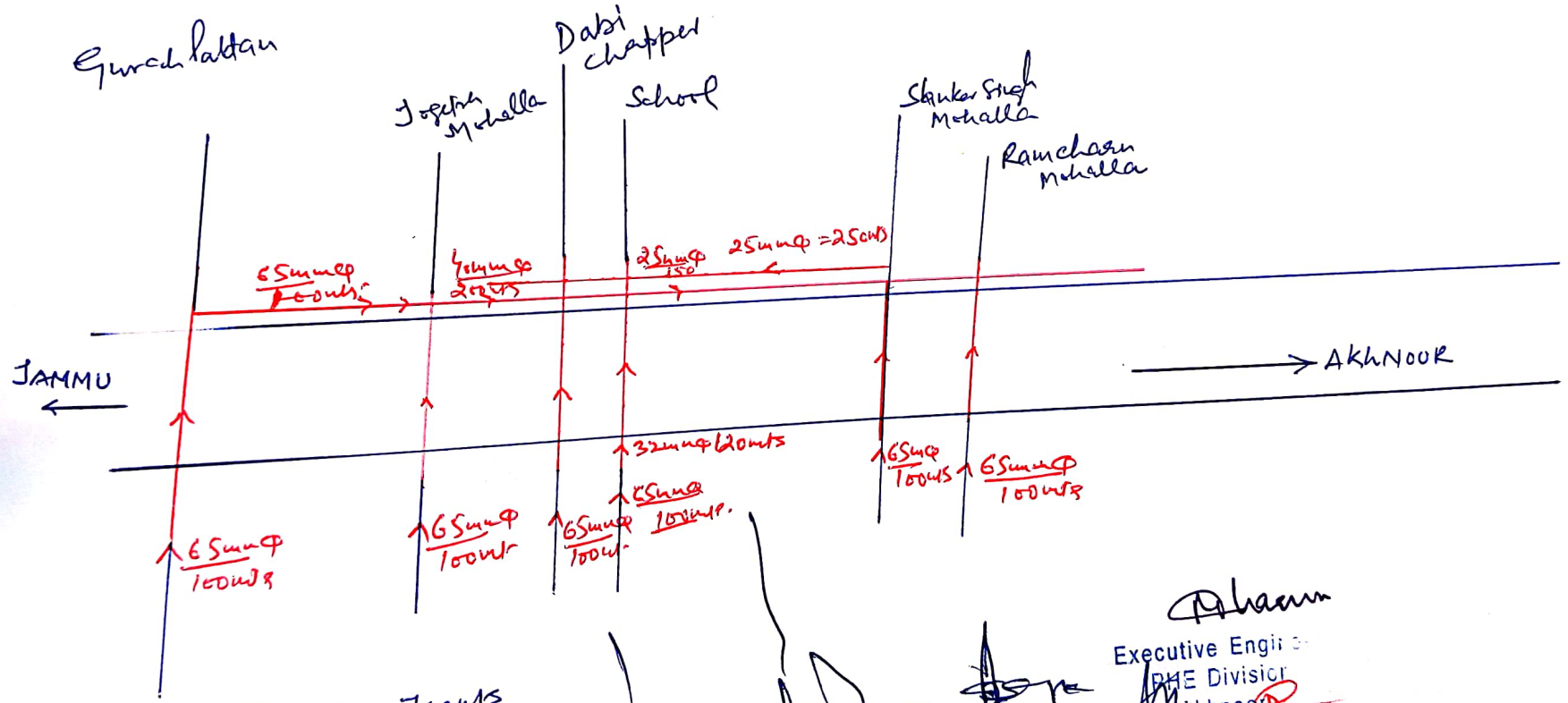
$$\begin{aligned}
 100\text{MM}\phi &= 400 + 350 + 800 + 50 + 150 = 1750\text{MT} \\
 80\text{MM}\phi &= 350 + 400 + 200 + 150 = 1100\text{MT} \\
 65\text{MM}\phi &= 150 = 150\text{MT} \\
 50\text{MM}\phi &= 250 + 100 = 350\text{MT}
 \end{aligned}$$

MOH
PAKHIAN

Asstt. Executive Engineer
PHE Sub Division
Bhalwal

DEYARAN MOH

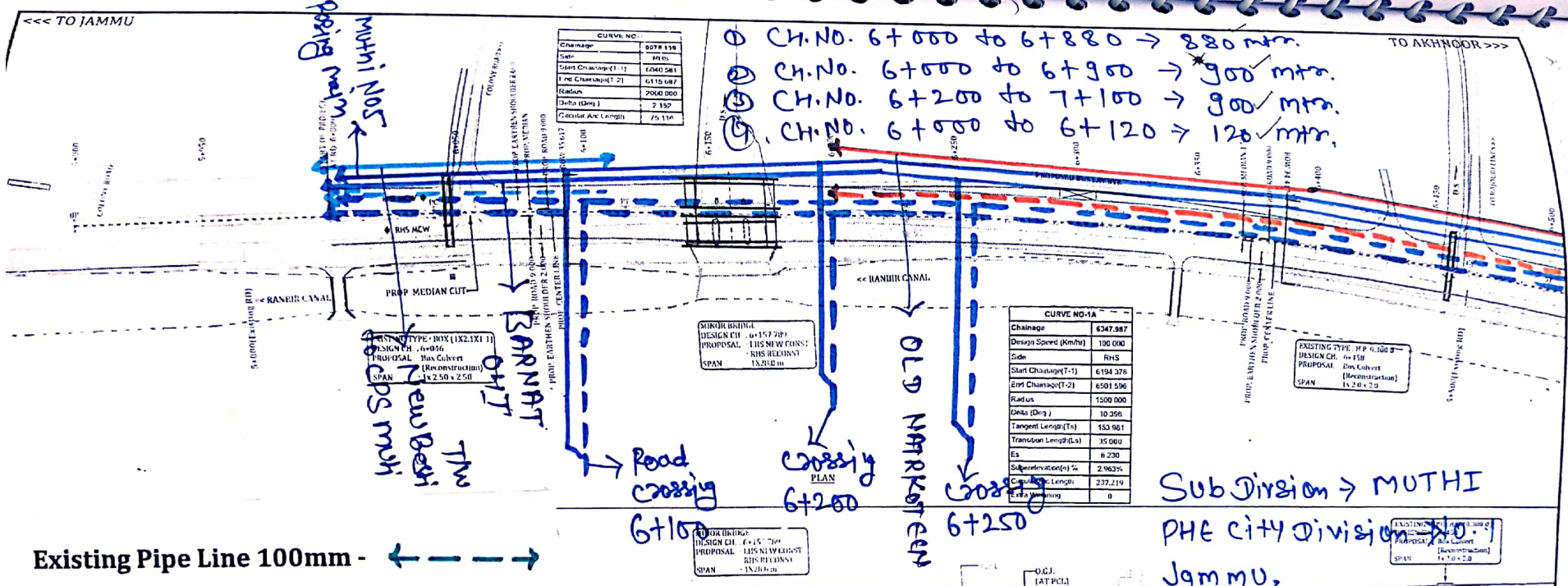
Executive Engineer
PHE Division
Akhnoot



65mmφ = 700wts
 40mmφ = 200wts
 32mmφ = 120wts
 25mmφ = 250wts

J. E.

P. Singh
 Executive Engineer
 PHE Division
 Akhnoor



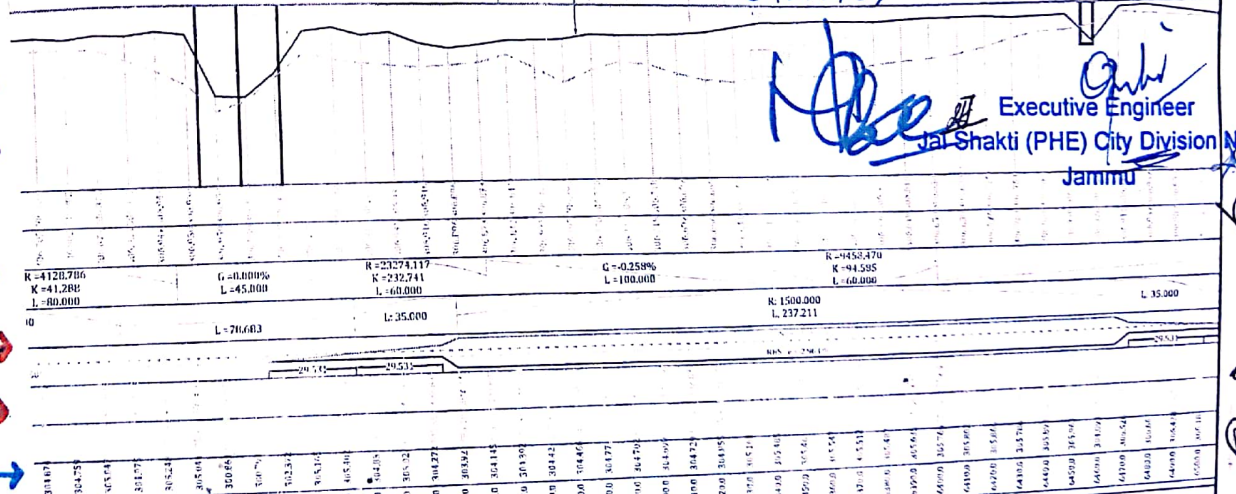
CURVE NO.-13	
Chainage	6278.138
Side	RHS
Start Chainage(T-1)	6040.261
End Chainage(T-2)	6115.687
Radius	2060.000
Delta (Deg.)	2.132
Circle Arc Length	75.116

CURVE NO.-1A	
Chainage	6347.987
Design Speed (km/hr)	100.000
Side	RHS
Start Chainage(T-1)	6194.376
End Chainage(T-2)	6501.596
Radius	1500.000
Delta (Deg.)	10.396
Tangent Length(Ta)	153.061
Transition Length(Ls)	35.000
Es	6.230
Subsidiaration(%)	2.962%
Curve Length	237.219
Circle Arc Length	0

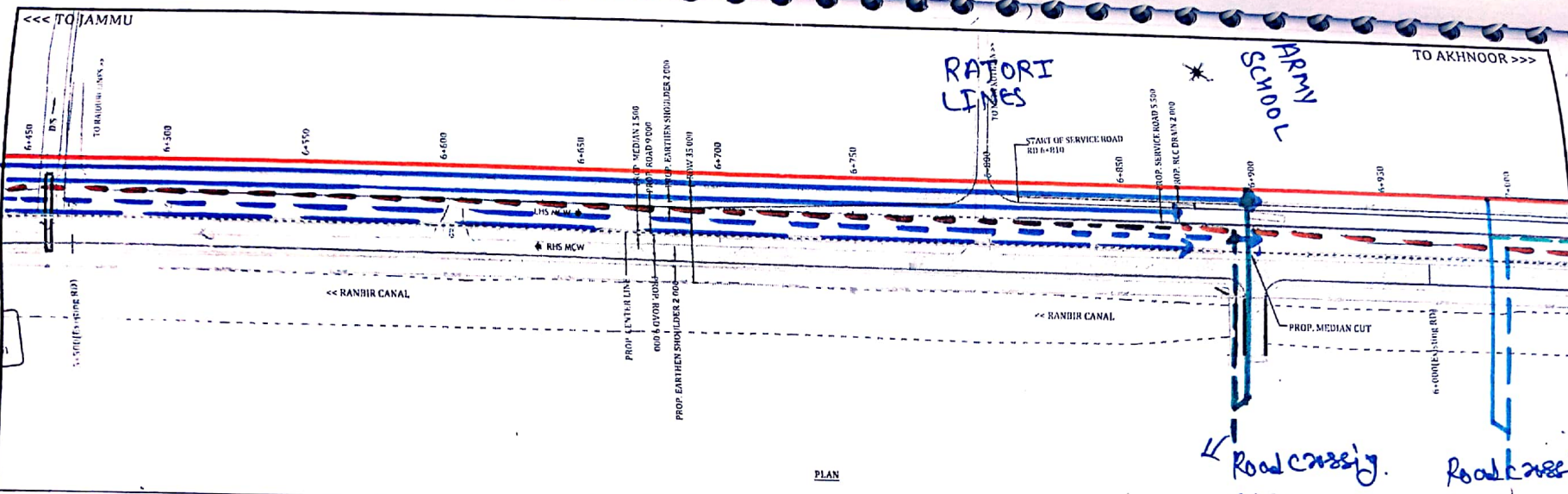
CURVE NO.-15	
Design CH	6+157.789
PROPOSAL	LHS NEW CORNER
RHS HELIX	RHS HELIX
SPAN	1X20.00m

EXISTING TYPE: HP 11.000	
DESIGN CH	6+158
PROPOSAL	Box Culvert
SPAN	1X20.00m

- Existing Pipe Line 100mm - [Blue double arrow]
- Proposed Pipe Line 100mm - [Blue double arrow]
- Existing Pipe Line 150mm - [Purple double arrow]
- Proposed Pipe Line 150mm - [Purple double arrow]
- Existing Pipe Line 200mm - [Blue double arrow]
- Proposed Pipe Line 200mm - [Blue double arrow]
- Existing Pipe Line 250mm - [Red double arrow]
- Proposed Pipe Line 250mm - [Red double arrow]
- Existing Pipe Line 300mm - [Blue double arrow]
- Proposed Pipe Line 300mm - [Blue double arrow]

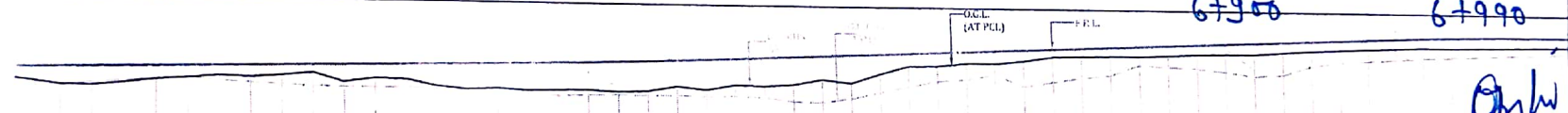


Sub Division → MUTHI
 PHE City Division No. 1
 Jammu,
 Executive Engineer
 Jai Shakti (PHE) City Division No. 1
 Jammu



PLAN

L-SECTION
SCALE: H=1:1000
V=1:200



CHAINAGE	D.G.L. (M)	P.G.L. (M)	F.L. (M)
6500.0	296.18		
6510.0	305.03		
6520.0	305.91		
6530.0	306.81		
6540.0	307.74		
6550.0	308.69		
6560.0	309.64		
6570.0	310.61		
6580.0	311.59		
6590.0	312.58		
6600.0	313.58		
6610.0	314.59		
6620.0	315.60		
6630.0	316.62		
6640.0	317.65		
6650.0	318.68		
6660.0	319.72		
6670.0	320.77		
6680.0	321.82		
6690.0	322.88		
6700.0	323.94		
6710.0	325.00		
6720.0	326.07		
6730.0	327.14		
6740.0	328.21		
6750.0	329.29		
6760.0	330.36		
6770.0	331.44		
6780.0	332.51		
6790.0	333.59		
6800.0	334.67		
6810.0	335.75		
6820.0	336.83		
6830.0	337.91		
6840.0	339.00		
6850.0	340.08		
6860.0	341.16		
6870.0	342.24		
6880.0	343.32		
6890.0	344.40		
6900.0	345.48		
6910.0	346.56		
6920.0	347.64		
6930.0	348.72		
6940.0	349.80		
6950.0	350.88		
6960.0	351.96		
6970.0	353.04		
6980.0	354.12		
6990.0	355.20		
7000.0	356.28		
7010.0	357.36		
7020.0	358.44		

VERTICAL ALIGNMENT: G = 0.377%, L = 260.000; R = 13500.762, K = 135.000, L = 60.000; G = 0.821%, L = 240.000

HORIZONTAL ALIGNMENT: L = 1005.511

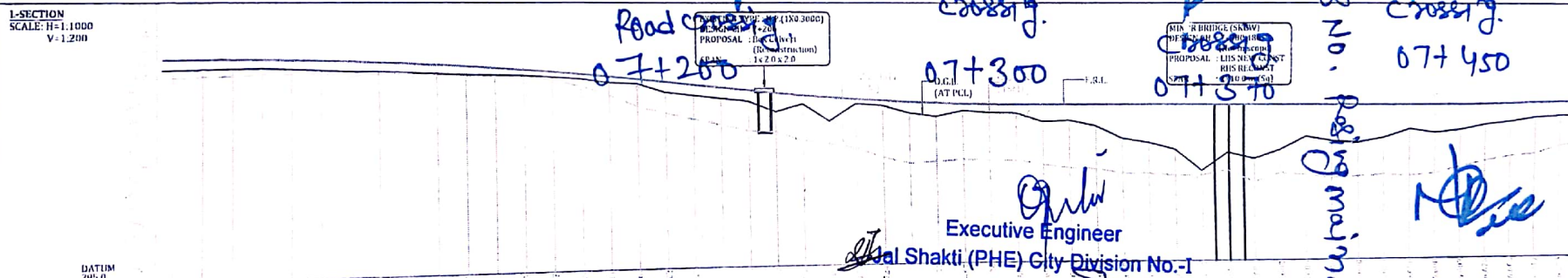
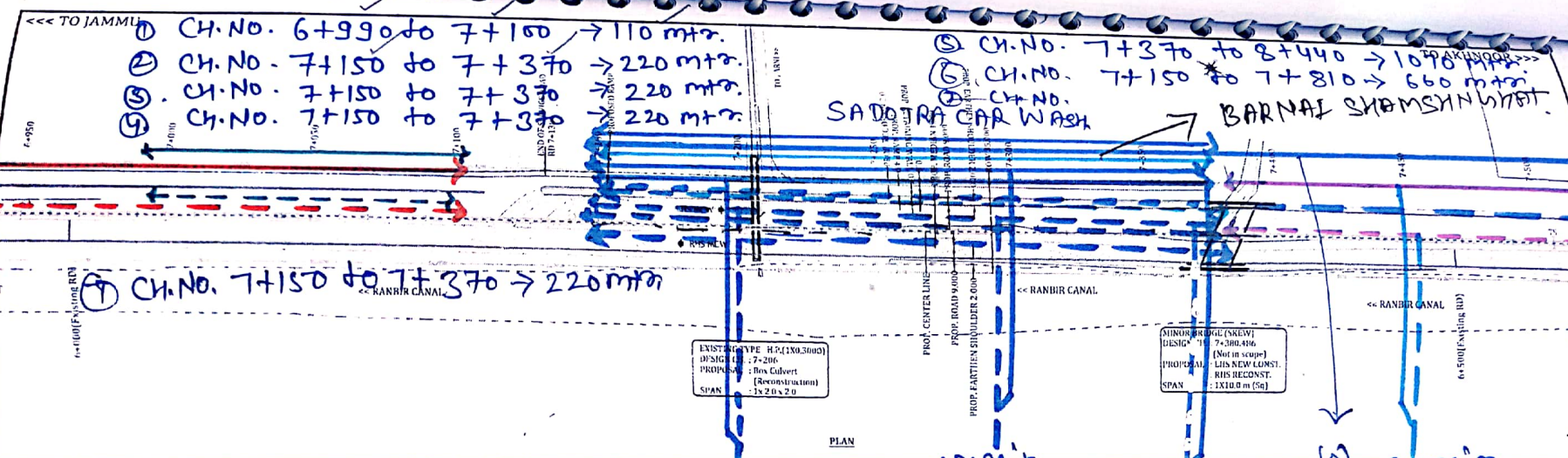
SUPER ELEVATION: 29.531

Executive Engineer
Jal Shakti (PHE) City Division No-I
Jammu

(Handwritten signature)

(Handwritten notes and signatures)

AUTHORITY NATIONAL HIGHWAYS & INFRASTRUCTURE DEVELOPMENT CORPORATION LIMITED (Ministry of Road Transport and Highways) Government of India	EPC CONTRACTOR M/S TARMAT LIMITED National Highways & Infrastructure Development Corporation Limited (Ministry of Road Transport and Highways) Government of India	HIGHWAY CONSULTANT General Highways And Infraco Pvt. Ltd. Plot No. 10, Sector 10, Gurgaon, Haryana Phone: 01299-420000, 01299-420001 Email: info@ghil.co.in	AUTHORITY ENGINEER JAL SHAKTI (PHE) CITY DIVISION NO-I JAMMU	PROJECT CONSULTANT P.E. University of Technology, Gwalior	SAFETY CONSULTANT H.P. SHARMA & CO. Plot No. 10, Sector 10, Gurgaon, Haryana Phone: 01299-420000, 01299-420001 Email: info@hps.co.in	PROJECT Upgradation to 4-lane with Paved Shoulder of Jammu-Akhnoor road section of NH-144A from Ganesh Vihar (Km 6.000) to Khatri Chowk (Km 26.350) of 20.35 Km length in the state of Jammu and Kashmir to be executed on EPC basis.	REVISIONS R-1 (15.12.20) Plan & profile Revised R-2 (15.12.20) Revised EPC contract documents, SHSRT, P&P, etc. R-3 (15.12.20) Plan & profile Revised from R-2. 300x300 mm paper 1/10th provided at site. R-4 (15.12.20) Plan & profile Revised to per drawing sheet No. 1/10.	TITLE PLAN AND PROFILE DWG. NO. TARMAT/JSK/JM/AN/KSM/INF/P&P/02 SCALE 1:1000 DATE DEC 2020
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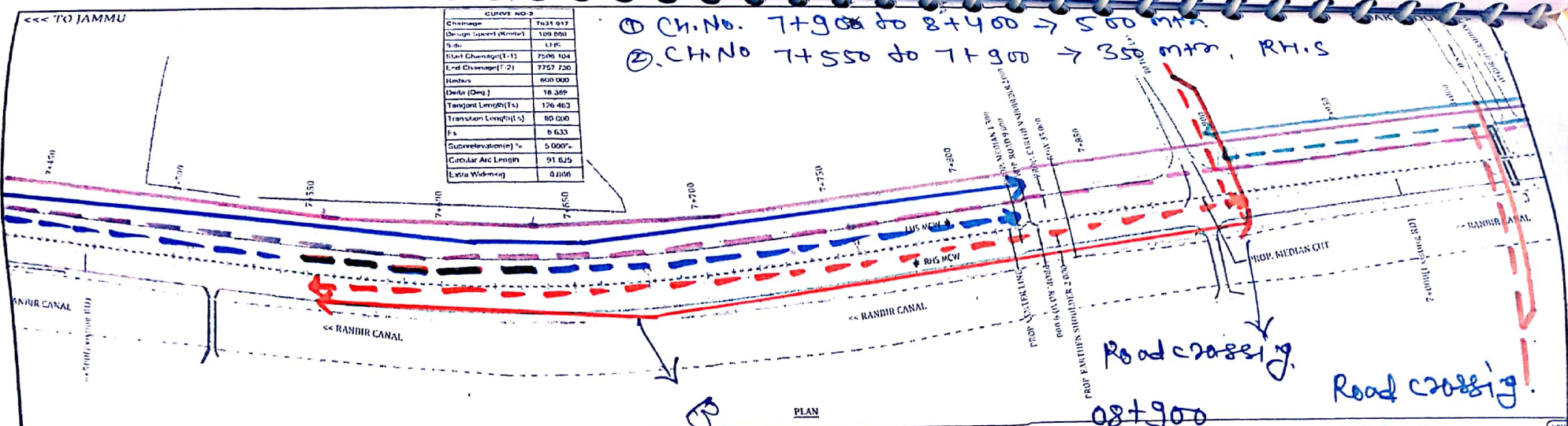
Executive Engineer
 Jhal Shakti (PHE) City Division No.-I
 Jammu

CHAINAGE	D.G.L. (AT P.L.)	SUPER ELEVATION	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT	PROFILES
7000.0	300.451		1004.511		
7010.0	300.500				
7020.0	300.548				
7030.0	300.597				
7040.0	300.645				
7050.0	300.694				
7060.0	300.742				
7070.0	300.791				
7080.0	300.839				
7090.0	300.888				
7100.0	300.936				
7110.0	300.985				
7120.0	301.033				
7130.0	301.082				
7140.0	301.130				
7150.0	301.179				
7160.0	301.227				
7170.0	301.276				
7180.0	301.324				
7190.0	301.373				
7200.0	301.421				
7210.0	301.470				
7220.0	301.518				
7230.0	301.567				
7240.0	301.615				
7250.0	301.664				
7260.0	301.712				
7270.0	301.761				
7280.0	301.809				
7290.0	301.858				
7300.0	301.906				
7310.0	301.955				
7320.0	302.003				
7330.0	302.052				
7340.0	302.100				
7350.0	302.149				
7360.0	302.197				
7370.0	302.246				
7380.0	302.294				
7390.0	302.343				
7400.0	302.391				
7410.0	302.440				
7420.0	302.488				
7430.0	302.537				
7440.0	302.585				
7450.0	302.634				
7460.0	302.682				
7470.0	302.731				
7480.0	302.779				
7490.0	302.828				
7500.0	302.876				
7510.0	302.925				
7520.0	302.973				

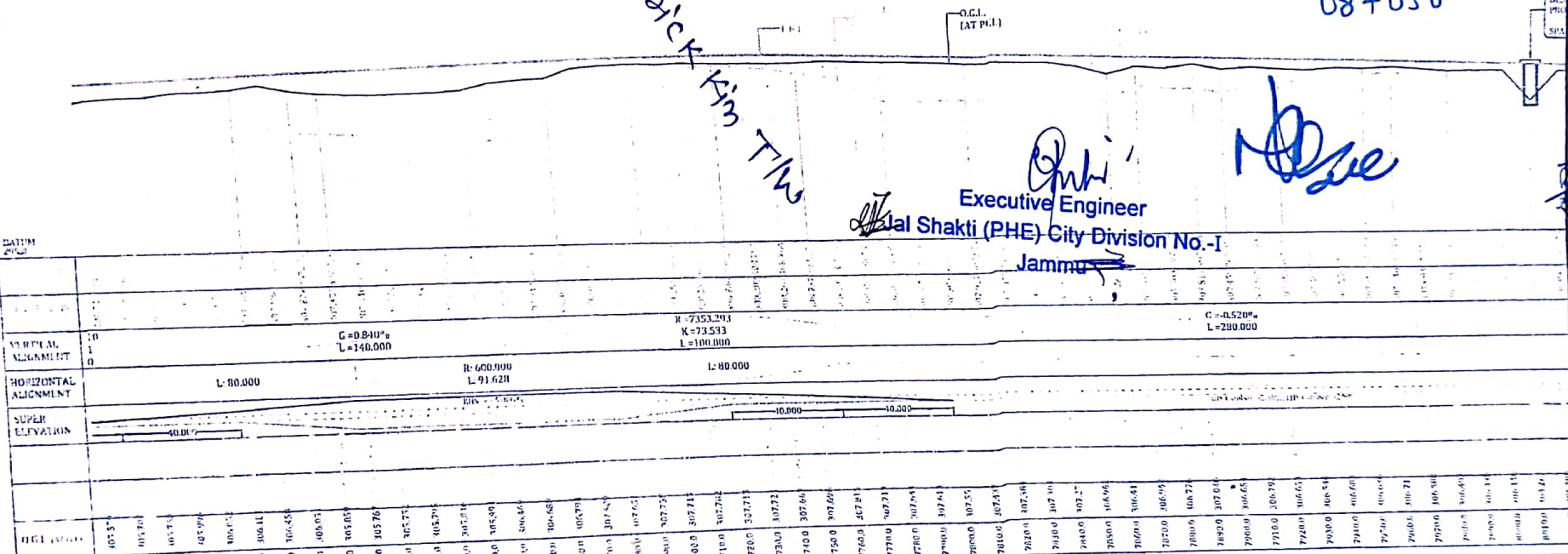
AUTHORITY Jammu & Kashmir State Road Transport & Highways Corporation Jammu	CONTRACTOR M/S. TAJMATH LIMITED Jammu	DESIGNER General Highways And Intracon Pvt. Ltd. Jammu	PROJECT Up-gradation to 4-lane with Paved Shoulder of Jammu-Ahmednagar road section of NH-144A from Ganesh Vihar (Km 6.000) to Khali Chowk (Km 26.500) of 20.45 Km length in the state of Jammu and Kashmir to be executed on EPC basis.	TITLE PLAN AND PROFILE SCALE: 1:1000 DATE: DEC 2020
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① Ch.No. 7+900 to 8+400 → 500 mtr.
 ② Ch.No 7+550 to 7+900 → 350 mtr, R.H.S

CURVE NO. 3	
Chainage	7631.917
Design Speed (km/hr)	100.000
Radius	1.195
Start Chainage (T-1)	7596.104
End Chainage (T-2)	7752.730
Radius	600.000
Delta (Deg)	18.269
Tangent Length (Ts)	176.483
Transition Length (Ls)	80.000
Pk	6.633
Superelevation (%)	5.000%
Circular Arc Length	91.625
Extra Widening	0.106



L-SECTION
 SCALE H=1:1000
 V=1:200



CHAINAGE	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300		
VERTICAL ALIGNMENT	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HORIZONTAL ALIGNMENT	L=80.000																																
SUPER ELEVATION	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		
O.G.L. (AT P.U.)	307.50	307.70	307.90	308.10	308.30	308.50	308.70	308.90	309.10	309.30	309.50	309.70	309.90	310.10	310.30	310.50	310.70	310.90	311.10	311.30	311.50	311.70	311.90	312.10	312.30	312.50	312.70	312.90	313.10	313.30	313.50	313.70	313.90

Executive Engineer
 Shakti (PHE) City Division No.-I
 Jammu

M.T. BOARD National Highways & Motorways Development Corporation Limited (Ministry of Road Transport & Highways) Government of India	PROJECT DIRECTOR M/S TARMAT LIMITED	HIGHWAY CONSULTANT General Highways And Infraco Pvt. Ltd.	AUTHORITY ENGINEER Jammu	PROJECT CONSULTANT Jammu	SAFETY CONSULTANT Jammu	PROJECT Up-gradation to 4-lane with Pavd Shoulder of Jammu-Akhnour road section of NH 444A from Ganesh Vihar (Km 6.000) to K.S. Chowk (Km 26.350) of 20.35 Km length in the state of Jammu and Kashmir to be executed on EPC basis	TITLE PLAN AND PROFILE
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CURVE NO-3	
Chainage	8478.521
Design Speed (km/hr)	100.096
Side	RHS
Start Chainage (T-1)	8308.278
End Chainage (T-2)	8544.784
Radius	473.000
Delta (Deg.)	28.528
Tangent Length (T)	170.978
Transition Length (PL)	100.000
Ea	15.966
Superelevation (%)	5.000%
Circular Arc Length	138.508
Extra Widening	0

EXISTING TYPE: Ø 250 Ø
 DESIGN CL: B-470
 PROPOSAL: Box Culvert
 (Reconstruction)
 SPAN: 1x2.0x2.0

EXISTING TYPE: H.P. Ø 250 Ø
 DESIGN CL: B-010
 PROPOSAL: Box Culvert
 (Reconstruction)
 SPAN: 1x2.0x2.0

EXISTING TYPE: H.P. (1XØ 250 Ø)
 DESIGN CL: B-010
 PROPOSAL: Box Culvert
 (Reconstruction)
 SPAN: 1x2.0x2.0

EXISTING TYPE: H.P. (Ø 250 Ø)
 DESIGN CL: B-470
 PROPOSAL: Box Culvert
 (Reconstruction)
 SPAN: 1x2.0x2.0

L-SECTION
 SCALE: H=1:1000
 V=1:200


PLAN

Shakti
 Executive Engineer
 Shakti (PHE) City Division No.-I
 Jammu

DATUM	241.0	
VERTICAL ALIGNMENT	R=11800.744 K=110.007 L=60.000	G=-0.015% L=100.000
HORIZONTAL ALIGNMENT	L=550.544	L=100.000
SUPER ELEVATION		
CHAINAGE	8300.000	8400.000

AUTHORITY
 Ministry of Road Transport & Infrastructure
 National Highways & Infrastructure Development Corporation Limited.
 (Ministry of Road Transport and Highway)
 Government of India

JRC CONTRACTOR
 M/S TANKI LIMITED
 Plot of land in the name of
 M/S TANKI LIMITED
 Village - Jammu
 District - Jammu
 Pin Code - 180001

HIGHWAY CONSULTANT

 General Highway And Infracore Pvt. Ltd.
 Plot of land in the name of
 General Highway And Infracore Pvt. Ltd.
 Village - Jammu
 District - Jammu
 Pin Code - 180001

AUTHORITY ENGINEER
 Shakti (PHE) City Division No.-I
 Jammu

PROJECT CONSULTANT
 Shakti (PHE) City Division No.-I
 Jammu

SAFETY CONSULTANT
 Shakti (PHE) City Division No.-I
 Jammu

PROJECT
 Up-gradation to 4-lane with Paved Shoulder of
 Jammu-Akhnoor road section of N.H. 144A from
 Ganesh Vihar (Km 6.003) to Akhnoor (Km 26.350) of 20.347 Km length in the state of Jammu
 and Kashmir to be executed on EPC basis.

DATE
 15/12/2020

PLAN AND PROFILE
 DRAWING NO.
 JAMMU & KASHMIR ROAD DEVELOPMENT
 SCALE
 DATE: DEC 2020

Shakti
Shakti
Shakti
Shakti

BOQ Format

Percentage BoQ

Tender Inviting Authority: National Highways & Infrastructure Development Corporation Limited

Name of Work: Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu and PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.

Contract No: NHIDCL/RO(JMU)/J-A(Pkg-III)/UtilityShifting/PHE/2021-22

Name of the Bidder/ Bidding Firm / Company :						
<u>PRICE SCHEDULE</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)						
Sl. No.	Item Description	Quantity	Units	Estimated Rate including GST in Rs. P	TOTAL AMOUNT including GST in Rs. P	TOTAL AMOUNT including GST In Words
1	2	3	4	5	6	7
1.2	Shifting of Public Health Engineering Department pipe lines 100mm i/d, 150mm i/d 200mm i/d 250mm i/d, 300mm i/d outside the proposed widening of the Highways under the Jurisdiction of Public Health Engg. City Division No. 01 Jammu Chain age from 06+000 to 08+440 Crossing the village location Muthi, Rajori Lines, Army School Netor Kottion, Barnai, Lower Barnai, Jan Ganga Tyre, Jalsa Resort Distric Jammu,	1.000	Cum	69480650.48	69480650.48	INR Six Crore Ninety-Four Lakh Eighty Thousand Six Hundred & Fifty and Paise Forty-Eight Only

83 Shifting of Water Supply Pipelines under PHE City Division No. 1 Jammu, PHE Division Akhnoor on Jammu-Akhnoor section of NH-144 A in the UT of Jammu & Kashmir.

	Jammu & Kashmir					
2.2	Shifting of Public Health Engineering Department pipe lines 100mm i/d outside the proposed widening of the Highways under the Jurisdiction of Public Health Engg. Division Akhnoor Chainage from 10+500 to 11+550 and 16+200 to 26+350 Crossing the village location Purkho, Kot, Balwal, OHT Pump House, Khadd, Simbalwali, Bhawati Palace, Shanti Home, Lambad Malla, Ashram, Bathera Chock, MG Motor, Mohoa Malla, Ek Number, PHE Station Dhumi, Ghudda Pattan, White House, Dhabbi Malla, Jaloatra Malla, Bhawa House, GOVT. High School, Jandial Thathi Distric Akhnoor, Jammu & Kashmir	1.000	Cum	41994486.79	41994486.79	INR Four Crore Nineteen Lakh Ninety-Four Thousand Four Hundred & Eighty Six and Paise Seventy Nine Only
Total in Figures					111475137.27	INR Eleven Crore Fourteen Lakh Seventy-Five Thousand One Hundred & Thirty-Seven and Paise Twenty-Seven Only
Quoted Rate in Figures			Excess (+)		0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only				