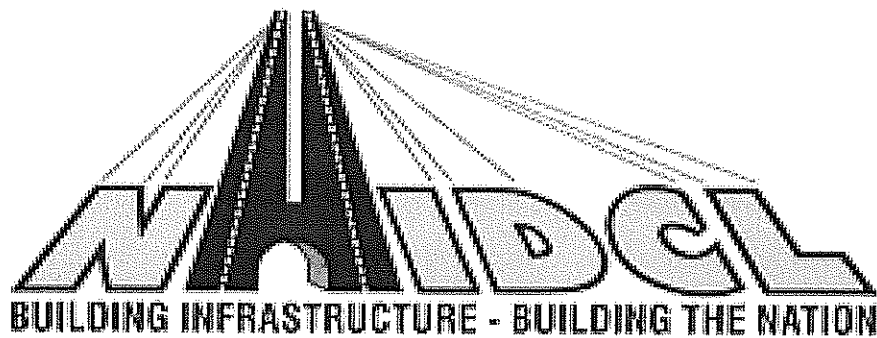


**NATIONAL HIGHWAY AND INFRASTRUCTURE DEVELOPMENT  
CORPORATION LIMITED**



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

**National Competitive Bid  
(Through CPP Portal, E-Tendering Mode)  
For**

**“Renovation, Repair, Re-surfacing & Construction of 53 Nos of urban link roads at  
Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh” (2<sup>nd</sup> call)  
Through Percentage Contract**

**O/o Executive Director (Projects)  
National Highways & Infrastructure Development Corporation Ltd  
Regional Office, Ladakh Yartsa House, Near Changspa Farm, Leh -194101,  
Ladakh**

**Corporate Head Quarters  
National Highways & Infrastructure Development Corporation Ltd  
3rd floor, PTI Building, 4-Parliament Street, New Delhi – 110001  
CIN No: U45400DL2014GOI269062**

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**PART A**  
**TO BE UPLOADED BY THE BIDDER ALONG WITH FINANCIAL BID**

**SECTION-I**  
**NOTICE INVITING TENDER**

## Notice Inviting Tender (NIT)

**Tender No: NHIDCL/Infra/Ladakh/2022**

**Dated: 31.05.2022**

**RFP No.: 29/RO-Ladakh/2022**

The Ministry of Road Transport & Highways through National Highways & Infrastructure Development Corporation Limited (NHIDCL) is engaged in the development of National Highways and Infrastructure works. NHIDCL RO-Ladakh for and on behalf of Director Urban Local Bodies Department, Union Territory of Ladakh invites **"Online Tenders" on "Percentage Mode"** from experienced and competent bidders, meeting prescribed eligibility criteria as mentioned in tender document.

Details of the work;

Name of the work	Estimated Cost	Completion Period	Defect Liability Period
"Renovation, Repair, Re-surfacing & Construction of 53 Nos of urban link roads at Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh" (2 <sup>nd</sup> call)	₹ 5,30,92,660/-	08 months	One Year

The complete BID document can be viewed from official portal of the CPPP website <https://eprocure.gov.in/eprocure> and website [www.nhidcl.com/tenders](http://www.nhidcl.com/tenders). The intending Bidder can download the tender, and must submit the technical bid and financial Bid at <https://eprocure.gov.in/eprocure> only. The Updates/Corrigendum/Addendum shall be followed up to submission of tender and it will be the part of tender. The notifications on updates/Corrigendum/Addendum will only be notified in <https://eprocure.gov.in/eprocure>.

The following Date schedule is to be followed for this project:

Sr. No.	Particulars	Date
1	Bid Document Download/ Start Date	31.05.2022
2	Clarification /Pre bid queries Start Date	31.05.2022
3	Clarification /Pre bid queries End Date	03.06.2022 (1100 Hrs.)
4	Pre bid meeting	03.06.2022 (1500 Hrs.)
5	Bid submission Start date	03.06.2022
6	Bid submission End date	11.06.2022 (1100 Hrs.)
7	Opening date of Technical Bids	13.06.2022 (1100 Hrs.)

The complete BID document can be viewed / downloaded from official portal of the CPPP website <https://eprocure.gov.in/eprocure/app> from 31/05/2022 to 11/06/2022 (upto 1100 hrs IST). Bidder must submit its Technical bid and Financial Bid at <https://eprocure.gov.in/eprocure/app> on or before 11/06/2022 (up to 1100 hrs IST)

The Instructions to bidder is attached with this NIT which shall be a part of RFP and the contract agreement.

Please note that the NHIDCL reserves the right to accept or reject all or any of the BIDs without assigning any reason whatsoever.



Col. Rajeev Kumar (Retd.)  
Executive Director (P)  
NHIDCL RO-Ladakh, Yartsa  
House near Changspa, Leh,  
UT of Ladakh – 194101  
Phone: 01982-295517  
E-mail: [nhidcl.leh@gmail.com](mailto:nhidcl.leh@gmail.com)

**SECTION-II**

**INSTRUCTIONS TO BIDDERS**

# INSTRUCTIONS TO BIDDERS (ITB)

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## Instructions to Bidders (ITB)

### **A. General**

#### **1. Name and Scope of Work:**

The Executing Agency (as defined in the Appendix to ITB) invites bids "Renovation, Repair, Re-surfacing & Construction of 53 Nos. of urban link roads at Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh" (2<sup>nd</sup> call)

- 1.1. 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**

The expenditure on this project will be provided by the Director, Urban Local Bodies Department Government of UT of Ladakh to the National Highways & Infrastructure Development Corporation Limited (NHIDCL).

#### **3. Eligible Bidders**

- 3.1. **For the registered government contractors:** The bid is open to contactors who are registered in the appropriate class with the government departments in CPWD/AIR/Railways/MES/BRO/ and PSU's of state and Central Governments such as BSNL, NHPC, NBCC etc. in the Public works Departments of state governments, Union Territories and its allied departments viz. Roads and Buildings, Irrigation, Public Health etc.
- 3.2. **For the non-registered contractors:** Bidder may be an individual, private entity, sole or partnership firm, company incorporated and registered in India, having prior experience of executing road works are eligible for bidding for this work.
- 3.3 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.  
The eligible bidders at 3.1 and 3.2 above shall scan and upload the documents stated under Clause 11.2 as per their category to participate in the technical bid.

#### **4. One Bid per Bidder**

- 4.1. Each Bidder shall submit only one Bid for the work. A Bidder who submits more than one Bid will cause the proposals with the Bidder's participation to be **disqualified**.

#### **5. Cost of Bidding**

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

#### **6. Site/Drawings details**

- 6.1. i) The site for the work is available.  
ii) The indicative Drawings showing the location of the proposed roads along with approximate length attached with the bid document.
- 6.2. The Bidder, at his own cost, responsibility and risk, is encouraged to visit, examine and familiarise himself with the Site of Works, road conditions, road geometrics and its surroundings including source of earth, water, materials such as aggregates, bitumen, binder material 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.

### **B. Bidding Documents**

#### **7. Content of Bidding Documents**

- 7.1. The bidder is expected to examine the Schedule of Quantities enclosed with bid document, indicative tender drawings, Technical and Particular specifications, contract conditions and special conditions of contract and access the site locations and include all transportation and miscellaneous cost while quoting the bid. The bill of quantities enclosed is financial bid in which the bidder is to quote a fixed percentage against the estimated cost given in the BOQ excluding GST which will be the contract price for this bid.

7.2. The bidder is expected to examine carefully all instructions, conditions of contract, contract data, forms, terms, and specifications, Schedule of Quantities, 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 22 hereof, bids, which are not substantially responsive to the requirements of the Bid Documents, shall be **rejected**.

### **8. Clarification of Bidding Documents**

8.1. A prospective Bidder requiring any clarification on the bid document may notify the Executing Agency in writing or by e-mail (scanned copy) at the Executing Agency's address indicated in the Notice Inviting Tender. The Executing Agency will respond to any request for clarification received earlier than 7 days prior to the deadline for submission of bids through mail in case of valid queries however the bidders are instructed to forward their queries before the prebid meeting preferably. Copies of the Executing Agency's response will be hosted on website or which are required in the opinion of the Executing Agency including a description of the enquiry, but without identifying its source for the queries received prior to pre bid meeting.

### **9. Amendment of Bidding Documents**

- 9.1. Before the deadline for submission of bids, the Executing Agency may modify the bidding documents by issuing addenda.
- 9.2. Any addendum thus issued shall be part of the bidding documents and shall be hosted on the NHIDCL website/e-procurement portal only.
- 9.3. To give prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Executing Agency shall extend, as necessary, the deadline for submission of bids, in accordance with Clause 17.

## **C. Preparation of Bids**

### **10. Language of Bid**

10.1. All documents relating to the Bid shall be in English and all correspondence would be in the same language.

### **11. Documents Comprising the Bid**

11.1. The e-bid submitted by the bidder shall be in two separate parts.

Part-I: Technical Bid

Part-II: Financial Bid.

11.2. **A) Technical Bid:** The intending bidders must read the terms & conditions of tender documents carefully. The Technical Bid shall be uploaded with scanned copies of following documents. All the documents must be Serial wise as stated below along with check list.

**For the registered government contractors:**

Sr. No.	Particular of Document	Yes	No
1.	Letter of Application on bidder's original letter Head to submit Technical Bid as per Annexure-A		
2.	Receipt of Bid Document Cost		
3.	Qualification Information (SECTION- III)		
4.	The enlistment certificate in the appropriate class in which the bidder is registered with the concerned department. The enlistment of the contractor should be valid on the last date of submission of Bid (Note: In case the last date of submission of bid is extended the enlistment of contractor should be valid on the original date of submission of bid.)		
5.	Proof of Payment of Bid Security		
6.	<b>Experience certificate</b> in works of a similar nature and size for each of the last Seven years (ending previous day of last day of submission of bids) with certificates from the concerned officer of the minimum rank of Executive Engineer-in-Charge or equivalent; One similar completed work* costing not less than amount equals to <b>80% of estimated cost put to tender.</b> <b>or</b> Two similar completed works* costing not less than amount equals to <b>60% of estimated cost put to tender.</b> <b>or</b>		



understanding of the nature and scope of work for the bidders. The documents will form part of the bid and subsequently part of the contract agreement with the successful bidder.

Sections	Particular
Section VIII	Conditions of Contract and Contract Data Including Annexures
Section IX	Scope of Work & Technical Specifications
Section X	Particular Specifications
Section XI	List of Approved Makes of Materials

## 12. **Bid Prices**

- 12.1. The Contract shall be in the mode of Percentage rate tender viz. the bidder is to quote a fixed percentage below/above/ at par (in figures as well as in words) against the total estimated cost given in the BOQ (excluding GST) which will be the contract price for this tender this amount is for the full scope of work stated in the Schedule of Quantities and as per the indicative drawings, specifications.
- 12.2. **The bidder shall quote bid prices on appropriate format enclosed as part of tender document on <https://eprocure.gov.in/eprocure/app>.**
- 12.3. The bidder is required to quote the amount excluding GST. GST at the existing rate & applicable laws will be paid to the contractor along with the each bill; however, 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.
- 12.4. Based on the percentage quoted, the contract prices shall be fixed for the duration of the Contract and shall not be subject to adjustment, except otherwise specified in relevant clauses of contract if any in the contract clauses.
- 12.5. The tender submitted shall be treated as invalid if:
- 1) The contractor does not quote percentage above/ below/ atpar on the total amount of estimated cost
  - 2) The percentage above / below /atpar is not quoted in figures and words
  - 3) The percentage above / below /atpar is different in figures and words against the estimated cost.
  - 4) Bids which proposed any alteration in the works specified / time allowed / which contents any other conditions of any sort including conditional rebates.
- 12.6. In case the lowest tender amount (estimated cost plus or minus the percentage quoted by the bidder) of 2 or more contractors is same such lowest contractors will be asked to submit sealed revised offer in the form of letter mentioned in percentage above/ below / atpar against the estimated cost of tender, subjected to that the revised offered percentage quoted above / below/ atpar against the estimated cost should not be higher than the percentage quoted at the time of submission of initial bid. The successful bidder shall be the lowest bid received on the basis of revised offer. In case if any of such bidder refuses to submit the revised offer within the prescribed time than it shall be treated as withdrawal of his tender and such bidder will not have any claim on his and deemed to have accepted that his bid is rejected.

## 13. **Currencies of Bid and Payment**

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

## 14. **Bid Validity and Bid Document Cost**

- 14.1. Bids shall remain valid for a period of **120 days** after the final deadline date for bid submission specified in Clause 17.
- 14.2. In exceptional circumstances, prior to expiry of the original time limit, the Executing Agency 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 15 in all respects.
- 14.3. The Bidder is required to pay a non-refundable fee as of Rs. 590/- towards cost of Bid Document through RTGS/

Sr.No.	Particulars	Details
1.	Name of Beneficiary	NHIDCL ESTABLISHMENT ACCOUNT
2.	Beneficiary Bank Account No.	76513070002321
3.	Beneficiary Bank Branch Name and Address	Canara Bank (erstwhile Syndicate Bank) Leh Branch, Tsaskan Complex near LIC Office, Distt. Public library Road, Leh-194101
4.	Beneficiary Bank Branch IFSC	CNRB0017651

NEFT/ other online mode to the NHIDCL's designated bank account. Details of designated bank account are as under:

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

- 14.4. Any bid not accompanied by Bid document fee/cost, shall be summarily rejected by the Executing Agency as **non-responsive**.

#### **15. Bid Security Detail**

- 15.1 The Bidder is mandatorily required to pay an amount of Rs 10,61,900 (2 % of the estimated cost put to tender) towards the bid security through NEFT/RTGS/IMPS/online mode only to the NHIDCL's designated bank account. Details of designated bank account are as under:

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited NHIDCL UT Ladakh Project Account
2	Beneficiary Bank Account No.	362305000136
3	Beneficiary Bank Branch IFSC	ICIC0003623
4	Beneficiary Bank Branch Name	3623 Leh Ladakh Branch
5	Beneficiary Bank Address	ICICI Bank,Leh-194101

- 15.2 Any bid not accompanied by Bid proof of payment of Bid Security amount shall be summarily rejected by the Executing Agency as **non-responsive**

#### **15.3 The Bid Security will be forfeited:**

- a) if the Bidder withdraws the Bid after its submission during the period of Bid validity; **or**
- b) if the Bidder does not accept the correction of the bid price, pursuant to Clause 23; **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 11.2;**
  - iv. **Corrupt or Fraudulent Practices as specified in Contract Agreement.**

#### **16 Alternative Proposals by Bidders**

- 16.1. 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**.

### **D. Submission of Bids**

#### **17 Schedule for Submission of Bids**

- 17.1. Complete E-Bid to be uploaded on e-procurement portal before due date & time as mentioned in NIT. The bidders viz. those registered with the government agencies and not registered with the government agencies shall upload the scanned documents as enlisted under para 11.2. The bidders shall upload the technical bid and financial bid before the stipulated date and time as prescribed in NIT.
- 17.2. The Executing Agency may extend the deadline for submission of bids by issuing an amendment in accordance with Clause 9, in which case all rights and obligations of the Executing Agency and the bidders previously subject to the original deadline will then be subject to the new deadline.
- 17.3. The detailed schedule for submission of bid shall be, as given in NIT/Appendix to ITB.

#### **18 Modification and Withdrawal of Bids**

- 18.1. Bidders may modify or withdraw their e-bids before the deadline prescribed in NIT/Appendix to ITB.
- 18.2. No bid may be modified after the deadline for submission of Bids.

- 18.3. Withdrawal of a Bid between the deadline for submission of bids and the expiration of the original period of bid validity specified in Clause 14.1 above or as extended pursuant to Clause 14.2 shall result in the forfeiture of the Bid security pursuant to Clause 15.

## **E. Bid Opening and Evaluation**

### **19 Bid Opening**

- 19.1. 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 NIT/Appendix to ITB. 'Financial Bid' of those bidders whose technical bid has been determined to be technically responsive shall be opened on the subsequent date through online process of e-tender, which will be notified to such bidders.
- 19.2. The Executing Agency 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 Executing Agency, the Bids will be opened at the appointed time and location on the next working day.
- 19.3. The Executing Agency at the opening of Technical Bid, will announce the bidders' names and such other details.
- 19.4. The Executing Agency will prepare minutes of the Bid opening, including the information disclosed to those present in accordance with Clause 19.1.
- 19.5. The bids accompanied with bid security declaration will be taken up for evaluation with respect to the Qualification Information and other information furnished in para 11.2
- 19.6. As soon as possible, the Evaluation Committee will finalize the list of technically responsive bidders whose financial bids are eligible for consideration.
- 19.7. The Executing Agency shall inform the bidders, whose technical bids are found technically responsive, of the date, time and place of opening of the financial bids. The technical responsiveness/non-responsiveness of the bidders will be uploaded in the CPP Portal and the financial bids will be opened after 7 days from the uploading of the results of the technical bids. The bidders so informed, or their representative, may attend the meeting of opening of financial bids.
- 19.8. The financial bids of only the technically responsive bidders will be opened. The technically responsive bidders' names, the Bid prices, the total amount of each bid and such other details as the Executing Agency may consider appropriate will be announced by the Executing Agency at the time of bid opening.
- 19.9. The Executing Agency shall prepare the minutes of the opening of the Financial Bids.

### **20 Process to be Confidential**

- 20.1. 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 Executing Agency's processing of bids or award decisions may result in the rejection of his Bid.

### **21 Clarification of Bids and Contacting the Executing Agency**

- 21.1. To assist in the examination, evaluation, and comparison of Bids, the Executing Agency may, at his discretion, ask any Bidder for clarification. The request for clarification shall be given in writing or by email asking the tenderer to respond by a specified date, and also mentioning therein that, if the tenderer does not comply or respond by the date, his tender will be liable to be rejected. Depending on the outcome, such tenders are to be ignored or considered further. No change in prices or substance of the bid including specifications, shall be sought, offered or permitted. No post-bid clarification at the initiative of the bidder shall be entertained. The shortfall information/ documents should be sought only in case of historical documents which pre-existed at the time of the tender opening and which have not undergone change since then. So far as the submission of documents is concerned with regard to qualification criteria, after submission of the tender, only related shortfall documents should be asked for and considered.
- 21.2. Subject to clause 21.1, no Bidder shall contact the Executing Agency 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 Executing Agency, he should do so in writing.

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

## **22 Examination of Bids and Determination of Responsiveness**

22.1. During the detailed evaluation of "Technical Bids", the Executing Agency will determine whether each Bid

- (a) meets the eligibility criteria defined in Clause 11.2;
- (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.

## **23 Correction of Errors.**

23.1. Financial Bids determined to be technically responsive will be checked by the Executing Agency for any arithmetic errors.

23.2. The amount stated in the Financial Bid will be corrected by the Executing Agency 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 action will be invoked on the bidder in accordance with Clause 15.1.

## **24 Evaluation and Comparison of Financial Bids.**

24.1. The Executing Agency will evaluate and compare only the bids determined to be technically responsive in accordance with Clause 22.

24.2. In evaluating the bids, the Executing Agency will determine for each Bid the evaluated Bid price by adjusting the Bid price after making any correction for errors pursuant to Clause 23;

24.3. **If the Bid of the successful Bidder is unrealeastic or erratic** then an irrevocable and unconditional guarantee from a Bank should also be submitted in the same form given in Annexure-H an Additional Performance Security (**the "Additional Performance Security"**) for an amount calculated as under:

- a) If the Bid Price offered by the Selected Bidder falls between 15% to 20% lower than Estimated Project Cost, then the Additional Performance Security shall be 10% of the Bid Price offered by the selected Bidder.
- b) If the Bid Price offered by the Selected Bidder falls between 20% to 30% lower than Estimated Project Cost, then the Additional Performance Security shall be 20% of the Bid Price offered by the selected Bidder.
- c) If the Bid Price offered by the Selected Bidder is lower than 30% of the Estimated Project Cost and which cannot be substantiated satisfactorily by the bidder, will be rejected as non-responsive.
- d) This Additional Performance Security shall be treated as part of the Performance Security.

24.4. A bid, which is quoted unrealistically/freakishly low or high and which cannot be substantiated satisfactorily by the bidder, may be rejected as non-responsive.

## **F. Award of Contract.**

### **25 Award Criteria.**

25.1. Subject to Clause 27, the Executing Agency will award the Contract to the Bidder whose Bid has been determined, to be technically responsive in the technical bid and who has offered the lowest financial Bid price in the financial bid.

### **26 Executing Agency's Right to accept any Bid and to reject any or all Bids**

26.1. Notwithstanding Clause 30, the Executing Agency 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 Executing Agency's action.

## **27 Notification of Award and Signing of Agreement.**

- 27.1. The bidder who's Bid has been accepted will be notified of the award by the Executing Agency. The executing agency will issue the "Letter of Acceptance". The LOA will state the sum that the Executing Agency will pay to the Contractor in consideration of the execution, completion and maintenance of the works, by the Contractor as prescribed in the contract.
- 27.2. The letter of acceptance and subsequent issuance of letter of commencement will be a part of the contract document.
- 27.3. The successful bidder shall have to sign the contract agreement within 10 days of the issue of LOA by the executing agency. The executing agency will issue the letter of commencement on the date of the signing of the contract agreement which will be a part of agreement. The date of signing of the contract agreement will be treated as the date of commencement viz. the appointed date.

## **28 Performance Security.**

- 28.1. **Within 60 (sixty) days** after signing of contract agreement, the successful Bidder shall deliver to the Executing Agency a Performance Security i.e. **Five (5%) percent of the Contract Price plus the GST applicable for this work**, valid for the period of **60 days** beyond the stipulated date of completion. The bid security amount of the successful bidder will be refunded after **30 days** from the receipt of the confirmation from the bank and on the request of the successful bidder.
- 28.2. The bidder shall also has to pay the additional performance security if any Bid in accordance with clause 24.3 of ITB along with the performance security for the same period. The extent rules applicable in the executing agency department are binding on the successful bidder.
- 28.3. The performance security shall be either in the form of a Bank Guarantee in the name of the Executing Agency, from a Bank as per the details specified below or can be submitted by online mode directly into the NHIDCL's bank account as per Annexure-H. Bank Guarantee shall be accepted from Public Sector Banks or Scheduled Private Sector Banks having Net Worth of Rs. 1,000/- Crores or more as per latest annual report of the bank. Authority reserves the right to add or remove any of names bank on which BG shall be accepted based on advisory from the Government/RBI. **The BGs issued by 'Foreign Banks' and 'Banks not mentioned in the list below' shall not be accepted.** The bank guarantee can be initially taken for a period of not less than one year and shall has to be extended from time to time for the total period as mentioned in 28.1 above, incase if the bank norms do not give the Bank Garautnee for the specified period at one stretch.

<b>List of Public Sector Banks</b>		
Bank of Baroda	Indian Bank	State Bank of India
Bank of India	Indian Overseas Bank	Union Bank of India
Bank of Maharashtra	Punjab National Bank	Central Bank of India
Canara Bank	Punjab & Sind Bank	UCO Bank

<b>List of Scheduled Private Sector Banks</b>		
Axis Bank Ltd.	Bandhan Bank Ltd.	CSB Bank Ltd.
City Union Bank Ltd.	DCB Bank Ltd.	Federal Bank Ltd.
HDFC Bank Ltd.	ICICI Bank Ltd.	Indusind Bank Ltd.
IDFC First Bank Ltd.	Jammu & Kashmir Bank Ltd.	Karnataka Bank Ltd.
Karur Vysya Bank Ltd.	Kotak Mahindra Bank Ltd.	Lakshmi Vilas Bank Ltd
RBL Bank Ltd.	South Indian Bank Ltd.	Tamilnadu Mercantile Bank Ltd.
Yes Bank Ltd.	IDBI Bank Ltd.	

- 28.4. Failure of the successful bidder to comply with the requirement of sub-clause 28.1 shall constitute sufficient ground for cancellation of the contract and debarment for a period of one year from the date of debarment.
- 28.5. The bid security amount paid by the all remaining unsuccessful bidders will be refunded on submission of request the same after 30 days from the date of opeining of financial bids on submission of their request.

## Appendix to ITB

Clause Reference	Instructions to Bidders																								
1.1	<b>Executing Agency</b> Designation: Executive Director (P) Address: NHIDCL, RO-Ladakh, Leh Email: nhidcl.leh@gmail.com																								
7.1	<b>Engineer-in-Charge</b> Designation: General Manager (P) Address: NHIDCL, PMU-Infra, Leh Email: nhidcl.infraleh@gmail.com																								
14.3	<b>Bid Document Cost:</b> Rs.590/- (inclusive of GST)																								
15.1	<b>Bid Security Amount:</b> Rs 10,61,900/- to be paid through NEFT/RTGS/IMPS to NHIDCL account																								
20.3 & 22.1	<b>Schedule for submission of Bids:</b> <table border="1" style="width: 100%;"><thead><tr><th style="text-align: center;">Sr. No.</th><th style="text-align: center;">Particulars</th><th style="text-align: center;">Date</th></tr></thead><tbody><tr><td style="text-align: center;">1</td><td>Bid Document Download/ Start Date</td><td style="text-align: center;">31.05.2022</td></tr><tr><td style="text-align: center;">2</td><td>Clarification /Pre bid queries Start Date</td><td style="text-align: center;">31.05.2022</td></tr><tr><td style="text-align: center;">3</td><td>Clarification /Pre bid queries End Date</td><td style="text-align: center;">03.06.2022 (1100 Hrs.)</td></tr><tr><td style="text-align: center;">4</td><td>Pre bid meeting</td><td style="text-align: center;">03.06.2022 (1500 Hrs.)</td></tr><tr><td style="text-align: center;">5</td><td>Bid submission Start date</td><td style="text-align: center;">03.06.2022</td></tr><tr><td style="text-align: center;">6</td><td>Bid submission End date</td><td style="text-align: center;">11.06.2022 (1100 Hrs.)</td></tr><tr><td style="text-align: center;">7</td><td>Opening date of Technical Bids</td><td style="text-align: center;">13.06.2022 (1100 Hrs.)</td></tr></tbody></table>	Sr. No.	Particulars	Date	1	Bid Document Download/ Start Date	31.05.2022	2	Clarification /Pre bid queries Start Date	31.05.2022	3	Clarification /Pre bid queries End Date	03.06.2022 (1100 Hrs.)	4	Pre bid meeting	03.06.2022 (1500 Hrs.)	5	Bid submission Start date	03.06.2022	6	Bid submission End date	11.06.2022 (1100 Hrs.)	7	Opening date of Technical Bids	13.06.2022 (1100 Hrs.)
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6	Bid submission End date	11.06.2022 (1100 Hrs.)																							
7	Opening date of Technical Bids	13.06.2022 (1100 Hrs.)																							
33.1	Performance Security: Five (5%) percent of the Contract Price plus the GST applicable for this work.																								

**SECTION-III**

**QUALIFICATION INFORMATION**

## QUALIFICATION INFORMATION

**[The information is to be filled and submitted by the intending bidder along with their technical bid.]**

**1) For Individual Bidders (Applicable to contractors not registered with government dept.)**

Constitution or legal status of Bidder

*(Upload scanned copy of Original)*

Details of Ownership: \_\_\_\_\_

Place of registration: \_\_\_\_\_

Principal place of business: \_\_\_\_\_

**2) Power of attorney of signatory of Bid (Applicable to contractors not registered with government dept.)**

*(Upload scanned copy)*

3) Work performed as prime contractor, work performed in the past as a nominated sub- contractor duly approved by Executing Agency 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. **(Applicable to contractors registered with government dept. and also contractors not registered with government dept.)**

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

*\* Attach certificate(s) from the minimum rank of Executive Engineer-in-Charge or equivalent*

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

**4) Litigation/Arbitration (Applicable to contractors registered with government dept. and also contractors not registered with government dept.)**

Bidder shall submit Information regarding litigation or arbitration history during the last five years in which the Bidder is involved, the parties concerned, the disputed amount, and the matter in bidder Letter Head

Other Party /Department / Executing Agency	Cause of Dispute	Amount involved	Remarks showing Present Status

**5) Bidders should provide the following affidavits/ undertakings as per formats enclosed hereafter: - (Applicable to contractors registered with government dept. and also contractors not registered with government dept.)**

(i) Affidavit as per format given in Annexure- C

(ii) Undertaking as per format given in Annexure- D

**SECTION-IV**

**ANNEXURES**

**FORM OF LETTER OF APPLICATION**  
**(On Bidder's letter Head)**

To,  
The Executive Director (P)  
NHIDCL, RO-Ladakh  
Yartsa House, Changspa,  
Leh, UT of Ladakh-194101

Name of Work: "Renovation, Repair, Re-surfacing & Construction of 53 Nos of urban link roads at  
Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh" (2<sup>nd</sup> Call)

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,

(Name)  
(Authorized Signatory)  
(Official-Seal)

For and on behalf of M/s \_\_\_\_\_

**Date:**

**Mobile No.:**

**Email Id:**

**Bid Security Deceleration**

**The bid security declaration is deleted in view of recent guidelines from the NHIDCL headquarter and in view of restoration of payment of bid security amount.**

**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 \_\_\_\_\_ has 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.
5. I/ We undertake and confirm that eligible similar works have not been got executed through another contractor on back to back basis.

\_\_\_\_\_  
(Signed and sealed by an Authorized Officer of the Firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

**UNDERTAKING**  
**(On Bidder's letter Head)**

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 and sealed by an Authorized Officer of the Firm)

\_\_\_\_\_  
Title of Officer

\_\_\_\_\_  
Name of Firm

\_\_\_\_\_  
DATE

**FORMAT FOR POWER OF ATTORNEY FOR SIGNING OF BID**  
**(To be notarized by Notary)**

Know all men by these presents, We **(name of the firm and address of the registered office)** do hereby irrevocably constitute, nominate, appoint and authorize Mr./Ms (name), son/daughter/wife of **(Name)** and presently residing at **(Address)**, who is presently employed with us/the Lead Member of our Joint Venture and holding the position of **(Designation)**, as our true and lawful attorney (hereinafter referred to as the "Attorney") to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our BID for the Project proposed or being developed by the National Highways & Infrastructure Development Corporation Ltd. (the "Authority") including but not limited to signing and submission of all applications, BIDs and other documents and writings, participate in Pre-BID and other conferences and providing information/responses to the Authority, representing us in all matters before the Authority, signing and execution of all contracts including the agreement and undertakings consequent to acceptance of our BID, and generally dealing with the Authority in all matters in connection with or relating to or arising out of our BID for the said Project and/ or upon award thereof to us and/or until the entering into of the Contract with the Authority.

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

IN WITNESS WHEREOF WE, \_\_\_\_\_, THE ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_\_\_\_ .

For .....

(Signature, name, designation and address) of person authorized by Board Resolution  
(incase of Firm/ Company)/ partner in case of

Witnesses: Partnership firm

- 1.
- 2.

Accepted

..... (Signature)  
(Name, Title and Address of the Attorney)

(Notarised)  
Person identified by me/ personally appeared before me/  
Attested/ Authenticated\*

(\*Notary to specify as applicable)  
(Signature Name and Address of the Notary)  
(Seal of the Notary)

Registration No. of the Notary

Date:.....

- Notes:
- *The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal affixed in accordance with the required procedure.*
  - *Wherever required, the Bidder should submit for verification the extract of the charter documents and documents such as a board or shareholders' resolution/ power of attorney in favour of the person executing this Power of Attorney for the delegation of power hereunder on behalf of the Bidder.*
  - *For a Power of Attorney executed and issued overseas, the document will also have to be legalised by the Indian Embassy and notarised in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalised by the Indian Embassy if it carries a conforming Appostille certificate.*

**FORM OF BANK GUARANTEE**

**[Performance Security/Additional Performance Security]**

To  
[National Highway and Infrastructure Development Corporation Limited]  
[Yartsa House near Changspa Farm, Changspa, Leh, UT of Ladakh-194101]

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**"<sup>1</sup>).

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 [Offg. Executive Director, 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.
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

<sup>1</sup> Guarantee Amount for Performance Security and Additional Performance Security shall be calculated as per Contract.

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 \*\*\*\*. 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.  
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 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.
10. 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.
11. 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.
12. This guarantee shall also be operatable at our ICICI Branch at Leh, UT of Ladakh, 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 there-under claimed, the said branch shall accept such invocation letter and make payment of amounts so demanded under the said invocation.
13. 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 [MoRT&H/NHAI/NHIDCL/State PWD/BRO], details of which is as under:

S.No.	Particulars	Details
1	Name of Beneficiary	National Highways & Infrastructure Development Corporation Limited NHIDCL UT Ladakh Project Account
2	Beneficiary Bank Account No.	362305000136
3	Beneficiary Bank Branch IFSC	ICIC0003623
4	Beneficiary Bank Branch Name	3623 Leh Ladakh Branch
5	Beneficiary Bank Address	ICICI Bank,Leh-194101

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)

**SECTION-V**

**TENDER DRAWINGS**

uploaded along with the RFP and as part of Contract Document

**SECTION-VI**

**SCHEDULE OF QUANTITIES**

## List of Works to be executed under this Contract

The Following is the list of indicative works to be executed under this Contract Agreement: -

Sr. No	Name of the Work	Tentative Cost (exclusive of GST)	Length of the road (m)
1	Construction of link road from Sonam Dorjey Kansar House to Lingsay House, Sklazangling, Leh UT Ladakh	4,63,819	60
2	Construction of link road from Tai Chorpa House via Govt High School to main road Agling road, Leh UT Ladakh	52,63,783	500
3	Construction of link road from Kunfan Model School Road to FRL - Agling Link road, Leh UT Ladakh	4,14,506	90
4	Construction of link road from Nurboo Yondak House to Rigzin Thubstan Alchi House, Skalangling Leh UT Ladakh	5,28,405	60
5	Construction of link road from Near HP gas Godown to FRL Agling, Leh UT Ladakh	8,80,674	100
6	Construction of link road from Alchi pa house to Zanskar Abi Sherab House, Leh UT Ladakh	6,60,507	75
7	Construction of link road from Smanla House to Alchi gonglo yogma House, Leh UT Ladakh	6,42,407	65
8	Construction of link road from Sonam Phuntsok House to Tashi Sonam House, Leh UT Ladakh	6,60,507	75
9	Construction of link road from Wakha pa House to Chuchot pa House , Leh UT Ladakh	6,91,825	70
10	Construction of link road from Nemo Labrang Sonam House to Paldam Lamayuru House , Leh UT Ladakh	7,56,209	80
11	Construction of link road from Main road Skalzangling to Sonam Phuntsok House , Leh UT Ladakh	2,81,817	32
12	Construction of urban roads at Ibex colony ward no.8, Leh UT of Ladakh (Sub-Pacakage-1 for 09 roads)	91,91,752	1750
13	Construction of urban roads at Ibex colony ward no. 8, Leh UT of Ladakh (Sub-Pacakage-2 for 14 roads)	2,21,72,109	3670
14	Construction of paver block roads in Ibex colony ward no. 8, Leh in the UT of Ladakh (Sub-Pacakage-3 for 11 roads)	46,49,690	591
15	Construction of paver block roads in Ibex colony ward no. 8, Leh in the UT of Ladakh (Sub-Pacakage-4 for 08 roads)	58,34,650	565
	<b>Total (Rs)</b>	<b>₹ 5,30,92,660.00</b>	<b>7.713</b>

**Note:**

1. Single tender percentage shall be quoted by the bidder in the BOQ (Priced schedule) which shall be applicable for all works mentioned above.
2. Work shall be awarded to the bidder whose overall bid amount worked out as lowest based on quoted percentage among the responsive tenders.
3. Separate work orders shall be issued for each of the above-mentioned works by Engineer-in-charge in case of necessity based on availability of land, approval from the competent authority for each work.
4. Separate running and final bills shall be prepared for each of the above-mentioned works.
5. Separate site registers shall be maintained for each of the above-mentioned works.
6. Separate extension of time, if any, shall be applied for each of the above-mentioned works in case of necessity.
7. The Schedule of Quantities for each of the work mentioned above is enclosed with RFP.

DETAILED ESTIMATE								
Name of Work: Construction of link road from Sonam Dorjey Kansar House to Lingsay House, Sklazangling, Leh UT Ladakh								
S.NO	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	150.00	139.40		20910	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	sqm	30.00	1396.82		41905	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	15.00	5877.45		88162	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	9.54	6624.80		63201	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	103.20	573.85		59221	
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	150.00	864.25		129638	
<b>Total (Rs)</b>							<b>403037</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							<b>100759</b>	<b>0</b>
<b>Total (Rs)</b>							<b>503796</b>	
<b>Add contingencies @5%</b>							<b>25190</b>	
<b>Total (Rs)</b>							<b>528986</b>	
<b>Estimated cost of the work inclusive of GST</b>							<b>528986</b>	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>4,63,819</b>	

DETAILED ESTIMATE						
Name of work : Construction of link road from Tai Chorpa House via Govt High School to main road Agling road, Leh UT Ladakh						
S.No	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)	Amount (Rs)
					JK SoR	NS JK SoR
						NS
<b>ROAD WORK</b>						
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters.	Sqm	2775.00	139.40	386835
2	16.82.2	Construction of <b>granular sub-base</b> by providing close graded material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-II (size range 53 mm to 0.075mm) having CBR Value-25	Cum	140.63	1077.15	151474
3	16.83	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to <b>Wet Mix Macadam (WMM)</b> specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	187.50	1041.50	195281
4	Non Schedule	Providing and applying primer coat with bitumen emulsion Grade SS-1 complying with IS:8887 on prepared surface of granular base including cleaning of road surface with compressed air and spraying primer at the rate of 0.80kg/sqm using pressure distributor as per clause 502 of MoRTH specifications complete.	Sqm	1875.00	53.47	100256
5	JKSoR derived Rate from 16.63.1	Providing and laying <b>bituminous macadam</b> using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by trippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.50 to 100mm average compacted thickness with bitumen of VG-10 @3.5% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	93.75	5917.98	554811
6	16.38.2	Providing and applying <b>Tack Coat</b> using hot straight run bitumen of grade-VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and prepared the existing road surface as per specifications. On bitumen surface @0.50 kg/sqm	sqm	1875.00	42.10	78938
7	JKSoR derived Rate from 16.65.1	Providing and laying <b>Bituminous concrete</b> using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.: 40/50 mm compacted thickness with bitumen of grade VG-10@ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	75.00	9004.58	675344
8	16.48	Providing <b>seal coat</b> of premixed fine aggregate (passing 2.36mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG-10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling mad finishing with road all complete.	sqm	1875.00	78.15	146531
<b>ROAD MARKINGS AND SIGN BOARDS</b>						
9	16.58	Providing and fixing Glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile) or HIP (High impact Polystyrene) or ABS having electronically welded micro-prismatic lens with abrasion resistant coating as approved by Engineer-in-charge. The Glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro-reflective surface shall be 35 +/- 5 degrees to base. The reflective panels on both sides with at least 12cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS : 873 part 4 : 1973. The studs shall be fixed to the road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge	each	12.00	193.85	2326

10	16.69	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/colour using hot thermoplastic material by fully/semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	25.00	604.50	15113
11	16.66	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminum sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type-IV of ASTM-D-4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC : 67-2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminum alloy rivets @ 20cm c/c to back support frame of M.S. angle iron of size 25x25x3mm along with theft resistant measures mounted and fixed with 2 nos. M.S. angles of size 35x35x5mm to a vertical post made upto M.S. Tee section ISMT 50x50x6mm welded with base plate of size 100x100x5mm at the bottom end and including making holes in pipes, angle flats, providing and fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical M.S.-Tee support to be painted in black and white colours). Backside of aluminum sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coats including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.				
11.1	16.66.1	Mandatory/Regulatory sign boards of 900 mm diameter with part as length of 3750 mm	each	1.00	5795.50	5796
11.2	16.66.2	Cautionary/warning sign boards of equilateral triangular shape having each side of 900 mm support length of 3650mm.	each	1.00	4260.80	4261
<b>Side Drain</b>						
12	2.8	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. Rate for a lead upto 25 meters beyond 1 meter from cutting edge				
12.1	2.8.1.	All kinds of soil :	cum	223.13	524.40	117007
12.2	2.8.2.	Ordinary Rock :	cum	74.38	922.35	68600
13	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	120.00	5877.50	705300
14	4.6.2	Centering and shuttering including strutting, propping etc. and removal of formwork for: Retaining wall, return wall, walls ( any thickness) including attached pilasters butteresses, plinth ans string coarse fillets, kerbs and steps etc.	sqm	1300.00	573.85	746005
<b>FOOTPATH WORK</b>						
15	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	sqm	75.00	776.57	58243
16	4.9.2	Providing & fixing at or near ground level precast cement concrete in kerbs, edging etc as per approved patterns and setting in position with cement mortar 1:3 (1 cement:3 coarse sand) including the cost of required centring, shuttering and curing complete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	15.00	6213.80	93207
17	4.4.5	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	37.50	4943.40	185378
18	4.6.2	Centering and shuttering including strutting, propping etc. and removal of formwork for: Retaining wall, return walls, walls ( any thickness) including attached pilasters butteresses, plinth and string course fillets, kerbs and steps etc.	sqm	25.00	573.85	14346
19	16.74	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with coarse sand etc. all complete as per direction of Engineer-in-charge.	sqm	375.00	770.60	288975
<b>Total (Rs)</b>						4493771
<b>Add 25% approximate cost index on JK Schedule items</b>						1123443
						5617214
						100256
<b>Total (Rs) JK SoR + NS</b>						<b>5717470</b>
<b>Add contingencies @5%</b>						285874
<b>Total (Rs)</b>						6003344
<b>Estimated cost of the work inclusive of GST</b>						6003344
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>						<b>52,63,783</b>

**DETAILED ESTIMATE**

**Name of work : Construction of link road from Kunfan Model School Road to FRL - Agling Link road, Leh UT Ladakh**

S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
		<b>ROAD WORK</b>						
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters.	Sqm	315.00	139.40		43911	
2	16.82.2	Construction of <b>granular sub-base</b> by providing close graded material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by tippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and comp[acting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge. With material conforming to Grade-II (size range 53 mm to 0.075mm) having CBR Value-25	Cum	23.63	1077.15		25448	
3	16.83	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to <b>Wet Mix Macadam (WMM)</b> specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	31.50	<b>1041.50</b>		32807	
4	Non Schedule	Providing and applying primer coat with bitumen emulsion Grade SS-1 complying with IS:8887 on prepared surface of granular base including cleaning of road surface with compressed air and spraying primer at the rate of 0.80kg/sqm using pressure distributor as per clause 502 of MoRTH specifications complete.	Sqm	315.00		53.47		16843
5	JKSoR derived Rate from 16.63.1	Providing and laying <b>bituminous macadam</b> using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by trippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.50 t0 100mm average compacted thickness with bitumen of VG-10 @3.5% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	15.75	5917.98		93208	
6	16.38.2	Providing and applying <b>Tack Coat</b> using hot straight run bitumen of grade-VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and prepared the existing road surface as per specifications. On bitumen surface @0.50 kg/sqm	sqm	315.00	42.10		13262	
7	JKSoR derived Rate from 16.65.1	Providing and laying <b>Bituminous concrete</b> using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.: 40/50 mm compacted thickness with bitumen of grade VG-10@ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	12.60	9004.58		113458	

8	16.48	Providing <b>seal coat</b> of premixed fine aggregate (passing 2.36mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG-10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling mad finishing with road all complete.	sqm	315.00	78.15		24617		
							Total (Rs)	346711	
							<b>Add 25% approximate cost index on JK Schedule items</b>	86678	
								433389	16843
							<b>Total (Rs) JK SoR + NS</b>	<b>450232</b>	
							<b>Add contingencies @5%</b>	22512	
							<b>Total (Rs)</b>	472744	
							<b>Estimated cost of the work inclusive of GST</b>	472744	
							<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>	<b>4,14,506</b>	

DETAILED ESTIMATE								
Name of Work: Construction of link road from Nurboo Yondak House to Rigzin Thubstan Alchi House, Skalangling Leh UT Ladakh								
S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR NS	
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	180.00	139.40		25092	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	36.00	1396.82		50286	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	18.00	5877.45		105794	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	9.54	6624.80		63201	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	103.20	573.85		59221	
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	180.00	864.25		155565	
<b>Total (Rs)</b>							<b>459159</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							114790	0
<b>Total (Rs)</b>							<b>573949</b>	
<b>Add contingencies @5%</b>							28697	
<b>Total (Rs)</b>							<b>602646</b>	
<b>Estimated cost of the work inclusive of GST</b>							602646	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>5,28,405</b>	

DETAILED ESTIMATE							
Name of Work: Construction of link road from Near HP gas Godown to FRL Agling, Leh UT Ladakh							
S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)	Amount (Rs)	
					JK SoR	NS	JK SoR NS
		<b>Road Works( CC Paver block Pavement)</b>					
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	300.00	139.40		41820
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	60.00	1396.82		83809
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	30.00	5877.45		176324
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	15.90	6624.80		105334
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	172.00	573.85		98702
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	300.00	864.25		259275
<b>Total (Rs)</b>							<b>765264</b>
<b>Add 25% approximate cost index on JK Schedule items</b>							191316 0
Total (Rs)							956580
<b>Add contingencies @5%</b>							47829
Total (Rs)							1004409
Estimated cost of the work inclusive of GST							1004409
Estimated cost put to Tender ( Excluding GST @ 14.05%)							<b>8,80,674</b>

**DETAILED ESTIMATE**

**Name of Work: Construction of link road from Alchi pa house to Zanskar Abi Sherab House, Leh UT Ladakh**

S.No.	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	225.00	139.40		31365	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	45.00	1396.82		62857	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	22.50	5877.45		132243	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	11.93	6624.80		79001	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	129.00	573.85		74027	
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	225.00	864.25		194456	
<b>Total (Rs)</b>							<b>573949</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							143487	0
Total (Rs)							717436	
<b>Add contingencies @5%</b>							35872	
Total (Rs)							753308	
<b>Estimated cost of the work inclusive of GST</b>							753308	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>6,60,507</b>	

DETAILED ESTIMATE								
Name of Work: Construction of link road from Smanla House to Alchi gonglo yogma House, Leh UT Ladakh								
S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
		<b>Road Works( CC Paver block Pavement)</b>						
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	227.50	139.40		31713.5	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	45.50	1396.82		63555	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	22.75	5877.45		133712	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	10.34	6624.80		68467	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	111.80	573.85		64156	
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	227.50	864.25		196617	
<b>Total (Rs)</b>							<b>558221</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							139555	0
Total (Rs)							697776	
<b>Add contingencies @5%</b>							34889	
Total (Rs)							732665	
Estimated cost of the work inclusive of GST							732665	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>6,42,407</b>	

DETAILED ESTIMATE								
Name of Work: Construction of link road from Sonam Phuntsok House to Tashi Sonam House, Leh UT Ladakh								
S.No.	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR NS	
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	225.00	139.40		31365	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	45.00	1396.82		62857	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	22.50	5877.45		132243	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	11.93	6624.80		79001	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	129.00	573.85		74027	
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	225.00	864.25		194456	
<b>Total (Rs)</b>							<b>573949</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							143487	0
<b>Total (Rs)</b>							717436	
<b>Add contingencies @5%</b>							35872	
<b>Total (Rs)</b>							753308	
<b>Estimated cost of the work inclusive of GST</b>							753308	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>6,60,507</b>	

DETAILED ESTIMATE								
Name of Work: Construction of link road from Wakha pa House to Chuchot pa House , Leh UT Ladakh								
S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR NS	
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	245.00	139.40		34153	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	49.00	1396.82		68444	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	24.50	5877.45		143998	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	11.13	6624.80		73734	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	120.40	573.85		69092	
6	16.94	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 16.94.1 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	245.00	864.25		211741	
<b>Total (Rs)</b>							<b>601162</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							150291	0
Total (Rs)							751453	
<b>Add contingencies @5%</b>							37573	
Total (Rs)							789026	
Estimated cost of the work inclusive of GST							789026	
Estimated cost put to Tender ( Excluding GST @ 14.05%)							<b>6,91,825</b>	

DETAILED ESTIMATE								
Name of Work: Construction of link road from Nemo Labrang Sonam House to Paldam Lamayuru House , Leh UT Ladakh								
S.No.	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR NS	
		<b>Road works</b>						
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	264.00	139.40		36801.6	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	52.80	1396.82		73752	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	26.40	5877.45		155165	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	12.72	6624.80		84267	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	137.60	573.85		78962	
6	16.94	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 16.94.1 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	264.00	864.25		228162	
<b>Total (Rs)</b>							<b>657110</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							164277	0
Total (Rs)							821387	
<b>Add contingencies @5%</b>							41069	
<b>Total (Rs)</b>							<b>862456</b>	
<b>Estimated cost of the work inclusive of GST</b>							862456	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>7,56,209</b>	

**DETAILED ESTIMATE**

**Name of Work: Construction of link road from Main road Skalzangling to Sonam Phuntsok House , Leh UT Ladakh**

S.No.	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
<b>Road Works( CC Paver block Pavement)</b>								
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	96.00	139.40		13382.4	
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	19.20	1396.82		26819	
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size	Cum	9.60	5877.45		56424	
4	4.7.1	Providing and laying cement concrete in kerbs, steps and the like at or near ground level including curing, excluding the cost of centring, shuttering, and finishing. 1:1½:3(1 cement :1½ coarse sand :3 graded stone aggregate 20 mm nominal size)	cum	5.09	6624.80		33707	
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	55.04	573.85		31585	
6	16.94	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge. 16.94.1 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	96.00	864.25		82968	
<b>Total (Rs)</b>							<b>244885</b>	
<b>Add 25% approximate cost index on JK Schedule items</b>							61221	0
<b>Total (Rs)</b>							<b>306107</b>	
<b>Add contingencies @5%</b>							15305	
<b>Total (Rs)</b>							<b>321412</b>	
<b>Estimated cost of the work inclusive of GST</b>							321412	
<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>							<b>2,81,817</b>	

**DETAILED ESTIMATE**

**Name of Work: Construction of urban roads at lbex colony ward no.8, Leh UT of Ladakh (Sub-Pacakege-1 for 09 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
<b>ROAD WORK</b>								
1	16.1	Preparation of subgrade by excavating earth to an avarage of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	9962.50	139.40		1388772.5	
2	16.82.2	Construction of <b>granular sub-base</b> by providing close graded material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by trippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and comp[acting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.						
		With material conforming to Grade-II (size range 53 mm to 0.075mm) having CBR Value-25	cum	510.94	1077.15		550356	
3	16.83	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to <b>Wet Mix Macadam</b> (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layers with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	664.65	1041.50		692233	
4	Non Schedule	Providing and applying prime coat with bitumen emulsion Grade SS-1 complying with IS:8887 on prepared surface of granular base including cleaning of road surface with compressed air and spraying primer at the rate of 0.80kg/sqm using pressure distributor as per clause 502 of MoRTH specifications complete.						
		On WMM surface @0.80kg/sqm	Sqm	6646.50		53.47		355388
5	JKSoR derived Rate from 16.63.1	Providing and laying <b>bituminous macadam</b> using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by trippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.50 t0 100mm average compacted thickness with bitumen of VG-10 @3.5% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	87.50	5917.98		517823	
6	16.38.2	Providing and applying <b>Tack Coat</b> using hot straight run bitumen of grade-VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and prepared the existing road surface as per specifications.						
		On bitumen surface @0.50 kg/sqm	sqm	6468.75	42.10		272334	
7	JKSoR derived Rate from 16.65.1	Providing and laying <b>Bituminous concrete</b> using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.: 40/50mm compacted thickness with bitumen of grade VG-10@ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	258.75	9004.58		2329935	

**DETAILED ESTIMATE**

**Name of Work: Construction of urban roads at lbex colony ward no.8, Leh UT of Ladakh (Sub-Pacakage-1 for 09 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)	
					JK SoR	NS	JK SoR	NS
8	16.48	Providing <b>seal coat</b> of premixed fine aggregate (passing 2.36mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG-10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling mad finishing with road all complete.	sqm	6468.75	78.15		505533	
<b>ROAD MARKINGS AND SIGN BOARDS</b>								
9	16.58	Providing and fixing Glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acryloretrite) or HIP (High impact Polystyrene) or ABS having electronically welded micro-prismatic lens with abrasion resistant coating as approved by Engineer-in-charge. The Glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro-reflective surface shall be 35 +/- 5 degrees to base. The reflective panels on both sides with at least 12cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS : 873 part 4 : 1973. The studs shall be fixed to the road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge	each	38.89	193.85		7539	
10	16.69	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/colour using hot thermoplastic material by fully/semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	87.50	604.50		52894	
11	16.66	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminum sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type-IV of ASTM-D-4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC : 67-2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminum alloy rivets @ 20cm c/c to back support frame of M.S. angle iron of size 25x25x3mm along with theft resistant measures mounted and fixed with 2 nos. M.S. angles of size 35x35x5mm to a vertical post made upto M.S. Tee section ISMT 50x50x6mm welded with base plate of size 100x100x5mm at the bottom end and including making holes in pipes, angle flats, providing and fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical M.S.-Tee support to be painted in black and white colours). Backside of aluminum sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coats including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.						

**DETAILED ESTIMATE**

**Name of Work: Construction of urban roads at lbex colony ward no.8, Leh UT of Ladakh (Sub-Pacakage-1 for 09 roads)**

S.NO	Reference of Rates JK SoR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)		
					JK SoR	NS	JK SoR	NS	
11.1	16.66.1	Mandatory/Regulatory sign boards of 900 mm diameter with part as length of 3750 mm	each	5.00	5795.50		28978		
11.2	16.66.2	Cautionary/warning sign boards of equilateral triangular shape having each side of 900 mm support length of 3650mm.	each	4.00	4260.80		17043		
<b>FOOTPATH WORK</b>									
<b>considered 25% of the total length of the roads</b>									
12	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	sqm	140.63	1396.82		196428		
13	4.9.2	Providing & fixing at or near ground level precast cement concrete in kerbs, edging etc as per approved patterns and setting in position with cement mortar 1:3 (1 cement:3 coarse sand) including the cost of required centring, shuttering and curing complete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	23.44	6213.80		145636		
14	4.4.5	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	70.31	4943.40		347583		
15	4.6.2	Centering and shuttering including strutting, propping etc. and removal of formwork for: Retaining wall, return walls, walls ( any thickness) including attached pilasters butteresses, plinth and string course fillets, kerbs and steps etc.	sqm	156.25	573.85		89664		
16	16.74	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with coarse sand etc. all complete as per direction of Engineer-in-charge.	sqm	703.13	770.60		541828		
Total (Rs)							7685285		
<b>Add 25% approximate cost index on JK Schedule items</b>							1921321		
							9606606	377388	
<b>Total (Rs) JK SoR + NS</b>							<b>9983994</b>		
<b>Add contingencies @5%( since the cost of individual estimates is falling below 1 Cr, 5 % is considered)</b>							499200		
Total (Rs)							10483193		
Estimated cost of the work inclusive of GST							10483193		
Estimated cost put to Tender ( Excluding GST @ 14.05%)							<b>91,91,752</b>		

**DETAILED ESTIMATE**

Name of work: Construction of urban roads at lbex colony ward no. 8, Leh UT of Ladakh (Sub-Pacakage-2 for 14 roads)							
S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Qty	Rate (Rs)		Amount (Rs)
					JK SoR	NS	JK SoR NS
		<b>ROAD WORK</b>					
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	19723.00	139.40		2749386
2	16.82.2	Construction of <b>granular sub-base</b> by providing close graded material conforming to specifications, mixing in a mechanical mix plant at OMC, carriage of mixed material by trippers to work site, for all leads & lifts, spreading in uniform layers of specified thickness with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.					
		With material conforming to Grade-II (size range 53 mm to 0.075mm) having CBR Value-25	cum	1038.45	1077.15		1118566
3	16.83	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm ) to <b>Wet Mix Macadam</b> (WMM) specification including premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, for all leads & lifts, laying in uniform layer with mechanical paver finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	Cum	1358.20	1041.50		1414565
4	Non Schedule	Providing and applying prime coat with bitumen emulsion Grade SS-1 complying with IS:8887 on prepared surface of granular base including cleaning of road surface with compressed air and spraying primer at the rate of 0.80kg/sqm using pressure distributor as per clause 502 of MoRTH specifications complete.					
		On WMM surface @0.80kg/sqm	Sqm	13582.00	53.47		726230
5	JKSoR derived Rate from 16.63.1	Providing and laying <b>bituminous macadam</b> using crushed stone aggregates of specified grading premixed with bituminous binder, transported to site by trippers, laid over a previously prepared surface with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers as per specifications to achieve the desired compaction and density, complete as per specifications and directions of Engineer-in-Charge.50 to 100mm average compacted thickness with bitumen of VG-10 @3.5% (percentage by weight of total mix) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	cum	671.55	5917.98		3974219
6	16.38.2	Providing and applying <b>Tack Coat</b> using hot straight run bitumen of grade-VG-10, including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and prepared the existing road surface as per specifications.					
		On bitumen surface @0.50 kg/sqm	sqm	13431.00	42.10		565445
7	JKSoR derived Rate from 16.65.1	Providing and laying <b>Bituminous concrete</b> using crushed stone aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site by tippers, laying with paver finisher equipped with electronic sensor to the required grade, level and alignment and rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction and density as per specification, complete and as per directions of Engineer-in-Charge.: 40/50mm compacted thickness with bitumen of grade VG-10@ 5.5% (percentage by weight of total mix) and lime filler @ 3% (percentage by weight of Aggregate) prepared in Batch Type Hot Mix Plant of 100-120 TPH capacity.	Cum	537.24	9004.58		4837621
8	16.48	Providing <b>seal coat</b> of premixed fine aggregate (passing 2.36mm and retained on 180 micron sieve) with bitumen using 128 kg of bitumen of grade VG-10 bitumen per cum of fine aggregate and 0.60 cum of fine aggregate per 100 sqm of road surface including rolling mad finishing with road all complete.	sqm	13431.00	78.15		1049633
		<b>ROAD MARKINGS AND SIGN BOARDS</b>					

9	16.58	Providing and fixing Glow studs of size 100x20mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylorethrite) or HIP (High impact Polystyrene) or ABS having electronically welded micro-prismatic lens with abrasion resistant coating as approved by Engineer-in-charge. The Glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro-reflective surface shall be 35 +/- 5 degrees to base. The reflective panels on both sides with at least 12cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS : 873 part 4 : 1973. The studs shall be fixed to the road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge	each	81.56	193.85	15810	
10	16.69	Providing and applying 2.5mm thick road marking strips (retro-reflective) of specified shade/colour using hot thermoplastic material by fully/semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications.	sqm	183.50	604.50	110926	
11	16.66	Manufacturing supplying and fixing retro reflective sign boards made up of 2mm thick aluminum sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to type-IV of ASTM-D-4956-01 in blue and silver white or other colour combination including subject matter, message (bi-lingual), symbols and borders etc. as per IRC : 67-2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-01 and fixing the same with suitable sized aluminum alloy rivets @ 20cm c/c to back support frame of M.S. angle iron of size 25x25x3mm along with theft resistant measures mounted and fixed with 2 nos. M.S. angles of size 35x35x5mm to a vertical post made upto M.S. Tee section ISMT 50x50x6mm welded with base plate of size 100x100x5mm at the bottom end and including making holes in pipes, angle flats, providing and fixing M.S. message plate of required size steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical M.S.-Tee support to be painted in black and white colours). Backside of aluminum sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coats including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.					
11.1	16.66.1	Mandatory/Regulatory sign boards of 900 mm diameter with part as length of 3750 mm	each	7.00	5795.50	40569	
11.2	16.66.2	Cautionary/warning sign boards of equilateral triangular shape having each side of 900 mm support length of 3650mm.	each	7.00	4260.80	29826	
		<b>FOOTPATH WORK</b>					
		<b>considered 25% of the total length of the roads</b>					
12	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	sqm	293.85	1396.82	410456	
13	4.9.2	Providing & fixing at or near ground level precast cement concrete in kerbs, edging etc as per approved patterns and setting in position with cement mortar 1:3 (1 cement:3 coarse sand) including the cost of required centring, shuttering and curing complete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	48.98	6213.80	304321	
14	4.4.5	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	146.93	4943.40	726309	
15	4.6.2	Centering and shuttering including strutting, propping etc. and removal of formwork for: Retaining wall, return walls, walls ( any thickness) including attached pilasters butteresses, plinth and string course fillets, kerbs and steps etc.	sqm	326.50	573.85	187362	

16	16.74	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with coarse sand etc. all complete as per direction of Engineer-in-charge.	sqm	1469.25	770.60		1132204		
							Total (Rs)	18667923	
							<b>Add 25% approximate cost index on JK Schedule items</b>	4666981	
								23334904	748230
							<b>Total (Rs) JK SoR + NS</b>	<b>24083134</b>	
							<b>Add contingencies @5%( since the cost of individual estimates is falling below 1 Cr, 5 % is considered)</b>	1204157	
							<b>Total (Rs)</b>	25287291	
							<b>Estimated cost of the work inclusive of GST</b>	25287291	
							<b>Estimated cost put to Tender ( Excluding GST @ 14.05%)</b>	<b>2,21,72,109</b>	

**Detailed Estimate**

**Name of work: Construction of paver block roads in Ibx colony ward no. 8, Leh in the UT of Ladakh (Sub-Pacakage-4 for 08 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Quantity	Rate (Rs)	Amount (Rs)
		<b>Earthwork</b>				
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	2806.50	139.40	391226
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	425	1396.82	593648
		<b>Cement concrete work</b>				
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	212.5	5877.5	1248969
4	4.4.2	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:1½:3 (1 cement :1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	cum	16.95	6624.8	112290
5	4.6.2	Centering and shuttering including strutting, propping etc. and removal of form work for: Retaining walls, return walls, walls (any thickness) including attached pilasters buttresses, plinth and string course fillets, kerbs and steps etc	sqm	971.80	573.85	557667
		<b>Paver Block</b>				
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge.	sqm	2125	864.25	1836531
		16.94.1 80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	2125	864.25	1836531
		<b>FOOTPATH WORK</b>				
		<b>considered 25% of the total length of the roads</b>				
7	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	sqm	37.58	776.57	29180
8	4.9.2	Providing & fixing at or near ground level precast cement concrete in kerbs, edging etc as per approved patterns and setting in position with cement mortar 1:3 (1 cement:3 coarse sand) including the cost of required centring, shuttering and curing complete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	6.26	6213.80	38914.00
9	4.4.5	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:3:6 ( 1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	cum	18.79	4943.40	92874

**Detailed Estimate**

**Name of work: Construction of paver block roads in Ibx colony ward no. 8, Leh in the UT of Ladakh (Sub-Pacakage-4 for 08 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Quantity	Rate (Rs)	Amount (Rs)	
10	4.6.2	Centering and shuttering including strutting, propping etc. and removal of formwork for: Retaining wall, return walls, walls ( any thickness) including attached pilasters buttersesses, plinth and string course fillets, kerbs and steps etc.	sqm	41.75	573.85	23958	
11	16.74	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with coarse sand etc. all complete as per direction of Engineer-in-charge.	sqm	187.88	770.60	144776	
					Total	50,70,033.00	
		<b>Add 25% approximate cost index on JK Schedule items</b>					12,67,508.25
					Total	63,37,541.25	
		<b>Add contingencies @5%</b>					3,16,877.06
					Total	66,54,418.31	
					Estimated cost of the work inclusive of GST		
						6654418	
					Estimated cost put to Tender ( Excluding GST @ 14.05%)		
						<b>58,34,650</b>	

**Detailed estimate**

**Name of work: Construction of paver block roads in Ibex colony ward no. 8, Leh in the UT of Ladakh (Sub-Pacakage-3 for 11 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Quantity	Rate (Rs)	Amount (Rs)
		<b>Earthwork</b>				
1	16.1	Preparation of subgrade by excavating earth to an average of 22.5 cm depth, dressing to camber and consolidation with road roller of 8-12 tonne capacity including making good the undulation etc. and disposal of surplus earth upto 50 meters..	Sqm	2126.25	139.40	296399
2	Derived from JKSoR	Providing and laying 200 mm thick compacted bed of Stone soling including spreading, well ramming, consolidating including finishing smooth etc. complete as per direction of Engineer-in-charge	cum	425.25	1396.82	5,93,998
		<b>Cement concrete work</b>				
3	4.4.3	Providing and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	225.7	5877.5	13,26,552
4	4.4.2	roviding and laying in position cement concrete of specified grade including curing but excluding the cost of centring and shuttering. All work upto plinth level with: 1:1½:3 (1 cement :1½ coarse sand: 3 graded stone aggregate 20 mm nominal size)	cum	93.969	6624.8	6,22,526
5	4.6.1	Centering and shuttering including strutting, propping etc. and removal of formwork for: Foundations, footings, bases for columns	sqm	1016.52	262.3	2,66,633
		PCC	sqm	1016.52	262.3	2,66,633

**Detailed estimate**

**Name of work: Construction of paver block roads in Ibex colony ward no. 8, Leh in the UT of Ladakh (Sub-Package-3 for 11 roads)**

S.NO	Reference of Rates JK SOR 2020 Code no.	DESCRIPTION	Unit	Quantity	Rate (Rs)	Amount (Rs)
		<b>Paver Block</b>				
6	16.94.1	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand complete all as per direction of Engineer-in-Charge.				
		80 mm thick C.C. paver block of M-30 grade with approved color design and pattern.	sqm	2111.25	864.25	18,24,648
						40,40,359.00
		<b>Add 25% approximate cost index on JK Schedule items</b>				10,10,089.75
					Total	50,50,448.75
		<b>Add contingencies @5%</b>				2,52,522.44
					Total	53,02,971.19
		Estimated cost of the work inclusive of GST				5302971
		Estimated cost put to Tender ( Excluding GST @ 14.05%)				<b>46,49,690</b>

**SECTION-VII**

**BILL OF QUANTITIES**

**Bill of Quantities**  
**Through Percentage Rate Contract**

Tender Inviting Authority: Executive Director (P), National Highways & Infrastructure Development Corporation Limited, RO-Ladakh

Name of Work: "Renovation, Repair, Re-surfacing & Construction of 53 Nos of urban link roads at Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh" (2<sup>nd</sup> Call)

RFP No: 29/RO-Ladakh/2022

Name of the Bidder/  
Bidding Firm / Company :

**BILL OF QUANTITIES**

(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/Name of Work	Estimated Rate excluding GST in Rs. P	Percentage to be quoted by the bidder excluding GST (above/Below / atpar against EC) Rs. P	Percentage in words	TOTAL AMOUNT excluding GST
1	"Renovation, Repair, Re-surfacing & Construction of 53 Nos of urban link roads at Ward no 7 & 8 of LEH (PKG-1), in UT of Ladakh" (2 <sup>nd</sup> call)	5,30,92,660/-			INR ----- - Only
Total in Figures					
Quoted Rate in Figures			Select		0.00
Quoted Rate in Words					