



NATIONAL AUTOMOTIVE TEST TRACKS

Notice Invitation Quotation (NIQ)

For

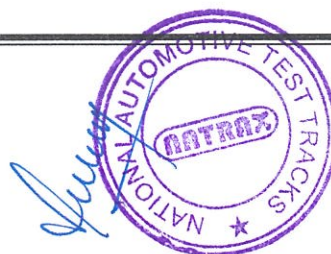
Braking Track Maintenance & Repair of  
(Expansion/Contraction) joints, Tyre Safety Barrier/RCC  
KERB Along Tracks

At

NATRAX  
PITHAMPUR, DIST. DHAR (Madhya Pradesh)

Tender No. - NATRAX/PROC/C&I/22/42

National Automotive Test Tracks (NATRAX)  
NH-52, Old Agra- Mumbai Highway, Near to Pithampur Flyover,  
Post Khandwa (Near Pithampur)  
Dhar District, Madhya Pradesh-454774  
Phone: +919893892310, Fax - 07292-256101  
Email: [a.prabhakar@natrip.in](mailto:a.prabhakar@natrip.in), [anuj.kumar@natrip.in](mailto:anuj.kumar@natrip.in)



**1. General Instructions:**

**National Automotive Test Tracks (NATRAX)** is an Automotive Testing & Certification Centre under NATRiP Implementation Society (NATIS)/National Automotive Board (NAB) which is an autonomous body constituted by Ministry of Heavy Industries, Government of India. NATRAX has been set up on approx. 3000 acres of land for comprehensive testing and evaluation of all types of automobiles, near Pithampur, Dist. Dhar, (Madhya Pradesh, India).

The National Automotive Test Tracks (NATRAX), invites **Password Protected Quotations/Bids** from the qualified and experience Bidder(s) in the prescribed Proforma for performing, executing and implementing the works on the terms and conditions contained in this Bid document. Brief Description of works and the timelines for NIQ/tender are summarised in the table below:

Description of Work	Period of Contract	EMD	Date of start of floating of tender	Last date for submission of Bid	Date & Time of Bid opening	Estimated Cost
Braking Track Maintenance & Repair of (Expansion/Contraction) joints, Tyre Safety Barrier/RCC KERB Along Tracks at NATRAX, Pithampur, Dhar (MP)	60 Days from the date of Issue of Work Order.	Nil	25 <sup>th</sup> Nov 2022	15/12/2022 at 1500 Hrs	15/12/2022 at 1530 Hrs	Rs 33 Lakh

The Bidder(s) who meet the minimum eligibility criteria (MEC) as mentioned in the Instruction to Bidder (ITB) may be eligible to become successful in the Bidding process. **The bidder(s) in the form of JV/Consortium is not permitted.**

**2. Bid Submission details:**

- a. **Password protected Bids/Quotations** are to be submitted by the Bidder(s) at the following email ID's not later than the aforesaid time & date or as next convenient date & time on pre-intimation. (for password protection details please refer Annexure IV of this document).

mail to: [a.prabhakar@natrip.in](mailto:a.prabhakar@natrip.in), [anuj.kumar@natrip.in](mailto:anuj.kumar@natrip.in)





OR

Sealed Bids/quotations may also be submitted in the hard copy containing Technical Bid and Financial Bids in TWO different sealed envelopes at NATRAX Hub office in the aforesaid date and time. However, Bidders are encouraged to Bid/quote through electronic mode considering the ongoing Covid pandemic.

- b. No Bids will be accepted after the aforesaid date and time. However, on exceptional cases, NATRAX reserves the right to extend the time/last date of submission of Bid to a next convenient date/time before opening of the Bids.
- c. Bids sent telegraphically or through other means of transmission (telex, etc.) which are not **Password Protected** shall be treated as defective, invalid and shall stand rejected.

Please Note: - In case of online Bid submissions Technical Bid and Financial Bid should have different passwords and in case of Bidder who are willing to submit the Bid in Sealed envelop in offline mode are advised to be present while Bid opening at NATRAX HUB.

- d. NATRAX shall not be responsible for any delays for non-receipt / non-delivery/or any technical errors or due to wrong addressee. Bidders may confirm the receipt of their Bids submission from NATRAX

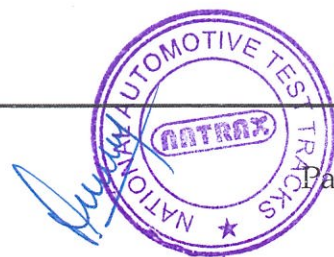
### 3. Disclaimer:

NATRAX reserves all rights to accept/ reject/modify/split any or all proposals without assigning any reasons. Bidders shall not have any cause of action or claim against NATRAX for any of its decisions.

For NATRAX  
Head Procurement & Stores

This tender further contain four Annexures

- A. Annexure-I(A)-Instructions to Bidders(ITB)  
B. Annexure-I(B)- Special conditions of contract.  
C. Annexure-II- Technical Conditions of contract.  
D. Annexure-III- Financial Proposal  
E. Method of submission (online through email).



**A. ANNEXURE I(A)-INSTRUCTION TO BIDDERS (ITB)**

1. Bidders are required to submit their Bids in two parts in a **Password Protected PDF format**, named as **“Bid for Tender No. NATRAX/PROC/C&I/22/42”** on the **subject of the email, containing two separate Password Protected PDF document**, as given below. The **Password Protected Bids** shall be submitted at the mentioned email ID(s) before the closure of Bid submission date/time.

OR

Sealed Bids/quotations may also be submitted in the hard copy containing Technical Bid and Financial Bids in TWO different sealed envelopes at NATRAX office in the aforesaid date and time. However, Bidders are encouraged to Bid/quote through electronic mode considering the ongoing Covid pandemic.

- a) The first **Password Protected document** marked as **“Technical Bid for Tender No. NATRAX/PROC/C&I/22/42”** shall consist of all the technical details eligibility, commercial terms and conditions and documents sought in the NIQ/Tender along with the signed copy the NIQ/Tender document. **Further, the Technical Bid must include a copy of the unfilled Financial Bid of the Bidder without any information on the prices**

OR

In case of offline Bid submission, the sealed document marked as **“Technical Bid for Tender No. NATRAX/PROC/C&I/22/42”** shall consist of all the technical details eligibility, commercial, terms and conditions and documents sought in the NIQ/Tender along with the signed copy the NIQ/Tender document. **Further, the Technical Bid must include a copy of the unfilled Financial Bid of the Bidder without any information on the prices**

- b) The second **Password Protected document** marked as **“Financial Bid for Tender No. NATRAX/PROC/C&I/22/42”** should consist of the Financial Bid duly filled and signed by an authorised person from the Bidder's.

OR

In case of offline Bid submission, the sealed document marked as **“Financial Bid for Tender No. NATRAX/PROC/C&I/22/42”** shall consist of Financial Bid duly filled and signed by an authorised person from the Bidder's.







- c) In case of online Bid submission, the password of the documents shall be submitted by the Bidders at the time of the Technical Bid opening and the Financial Bid Opening respectively.
- d) *The bidders are advised to submit the bid after due signed on each page and numbered, the bids received without sign and numbered may be rejected by NATRAX.*

Please Note: - Technical Bid and Financial Bid should have different passwords.

The Meeting link for the Technical Bid Opening is as follows:

### TO BE SHARED BEFORE BID OPENING

#### 2. Technical Bid Opening:

The Technical Bids are opened at the first instance and evaluated. At the second stage, financial Bids of only technically qualified Bidder shall be opened with prior intimation about the date and time for further scrutiny, evaluation, ranking & placement of order.

3. The Bidders are expected to meet the minimum eligibility criteria (MEC) as given in this document. NATRAX will disqualify the Bid(s) those do not meet the minimum eligibility criteria as laid down, based on their submission along with the Tender documents even after the Bid opening process is concluded.
4. The Contract shall be governed by the terms and conditions specified in this tender document including amendments, work order etc.,
5. All Bidders are hereby explicitly informed that "CONDITIONAL OFFERS" or "OFFERS WITH DEVIATIONS" from the conditions of Contract, the quotation not meeting the minimum eligibility criteria, technical specifications, or any other requirements as stipulated in the Tender documents are liable to be "REJECTED".
6. Bidders should give details of their technical soundness and provide list of customers/client of previous works of similar nature in Government Departments/ Undertakings/ Public / Private sectors/Autonomous etc.,
7. **Minimum Eligibility Criteria: -**

**Documents to be submitted along with the Bid:**

The Bidders who's Bid meet the following criteria would only be considered



as responsive and evaluated by NATRAX.

**i. MEC 1: -**

**Legal Valid Entity:** The Bidder shall necessary be a legal valid entity either in the form of Proprietary/Private Partnership/ Public Limited Company/ Private/ Govt./ Public/ Autonomous, documentary evidence should be submitted. **In form of JV/Consortium not permitted.**

**Following List of acceptable documents should also be submitted along with under above-**

- a) Certificate of Incorporation/Commercial establishment of firm/License certificate of the firm, etc.
- b) PAN Card/GST registration, PF registration, ESI Registration, Labor License and any other applicable statutory requirements, etc.,

**ii. MEC - 2: Financial Capabilities:** The Bidder should have minimum 3 years' experience with **Minimum Average Annual Financial** turnover during the last three years, ending on 31st March of the previous financial year (2018-19, 2019-20 & 2020-21), should be as **Rs 30 Lakh**. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods OR a Certificate (with UDIN NO.) from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be submitted with the Bid.

In case the date of constitution / incorporation of the Bidder are less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criterion. For startups registered firms, no turnover is required.

**Any of the following acceptable documents to be submitted with Bid:**

- a) Certified balance sheets for relevant period mentioned above, must necessarily have UDIN.
- b) Certificate from chartered accountant / cost accountant indicating turnover details for relevant period mentioned above, must necessarily have UDIN.

**iii. MEC-3 -Similar works:** The Bidder should have successfully completed **similar works\*** component in the last 7 years meeting the following criteria: -



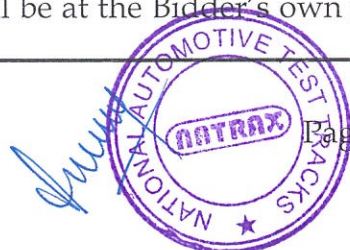


- a. Three similar completed works costing not less than the amount equal to 40 (forty) percent of the estimated cost; or
- b. Two similar completed works costing not less than the amount equal to 50 (fifty) percent of the estimated cost; or
- c. One similar completed work costing not less than the amount equal to 80 (eighty) percent of the estimated cost;

*Similar Works\*: successfully completed work pertaining to Civil construction/maintenance works for Roads/bridges/test tracks/Runways/Highways etc., for any Govt Dept./Reputed firm Private Institution/Academic Institutions/etc.*

**List of accepted documents as proof of MEC (iii) above:**

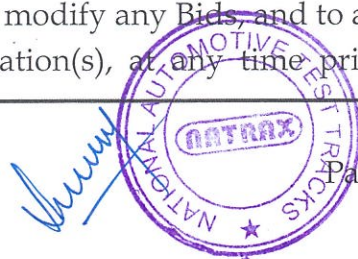
- a) Completion certificate along with PO/ work order, with value of works, etc.,
  - b) In case completion certificate/Purchase order (PO) does not clearly mention the value of work executed, then the Bidder shall submit the fresh summary & proof as TDS, CA certificate, Excise, GST returns etc.,
  - c) In case PO/Work order/completion certificate issued by any private employer, than form 26AS should be submitted to support the genuineness of the same.
8. **Tender Fee & Exemptions: -**
- a) This tender is free of cost.
  - b) If registered under Startups and "Micro & Medium Small Enterprises" (MSME's), supporting documents need to be submitted to avail exemption from Earnest Money, subject to verification of certificate.
  - c) *The Benefits & Exemptions for Startups and MSME Bidders (Udhyam Registration Certificate) - the exemption from prior turnover & experience & price benefit (under Class 1, 2 & 3) may be given as per the guideline.*
9. The Bidders are expected to carefully examine all the contents of the Tender documents/NIQ including instructions, conditions, terms, specifications, drawings (if any), shall inspect the Site with prior notice to NATRAX and at Bidders own cost, acquaint himself with all local conditions, means of access to the work, nature of the work and all matters pertaining thereto & take them fully into account before submitting their offer. Failure to comply with the requirements as detailed in these documents shall be at the Bidder's own risk.
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Bids which are not responsive to the requirements of the Tender will be rejected.

10. While all efforts have been made to avoid errors in drafting of the Tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the Tender documents shall be entertained.
11. The Bidder shall carry out all the work strictly in accordance with Specification, Standard Practices and instructions of NATRAX or NATRAX's representative and deviation on any account will not be permitted. If in the opinion of NATRAX, changes have to be made and it desires the Bidder to carry out the same. The decision of NATRAX in such cases shall be final and shall not be open to arbitration.
12. The successful Bidder is bound to carry out associated work necessary for the completion of the job even though such items are not included in the quantities to achieve end results and deemed to be priced in the other items. No claim on this account shall be entertained.
13. Addendum / Corrigendum (if required) to the Tender may be issued prior to the date of opening of the Bid to clarify or to intimate any changes/modifications etc. All such addendum / corrigendum shall be treated as an integral part of the Tender.
14. Any effort by a Bidder to influence NATRAX or any of its functionaries in the process of examination, clarification, evaluation and comparison of tenders and in decisions concerning award of contract, may result in rejection of the Bid.
15. In order to afford prospective bidders, reasonable time for preparing their Quotes after taking into account such amendments, NATRAX may, at its discretion, extend the deadline for submission of Bids.
16. Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations concerning the award of Contract shall not be disclosed to Bidders or other persons not officially concerned with such process.
17. NATRAX reserves the right to accept / reject or modify any Bids, and to annul the Tender process and reject all Bid(s)/quotation(s), at any time prior to





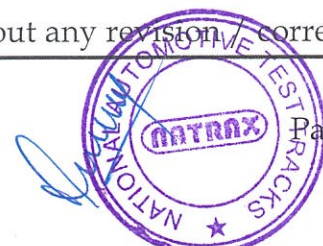
award of Contract, or to divide the Contract between/amongst Bidders without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for NATRAX's action. Any Bidder not following ITB stands rejected.

## 18. TECHNICAL BID EVALUATION

- a) NATRAX shall follow the **Segregated Bid evaluation** system (No bearing of technical score in the financial Bid evaluation and L-1 in the financial Bid shall be deemed as successful Bidder) to determine the successful Bidder. (Bidders may also refer the SCC)
- b) The Bidder must qualify the all three MEC's.
- c) The Bidder is requested to specify what particular value he is offering for each particular requirement, rather than just stating he is fulfilling the Minimum Requirement.
- d) During the technical Bid evaluation process, NATRAX may ask clarifications to the Bidder through E-mail for confirming and consolidating their technical offers.
- e) All such clarifications are required to be answered by the bidders by E-mail, within the time specified by NATRAX.
- f) Only the technically qualified bidders shall be intimated for financial bid opening in writing.
- g) The Financial Bids of the Technically qualified Bidders shall be opened through online mode and the Financial Bids received through off-line mode shall also be opened on the same day and time at NATRAX Hub.

## 19. FINANCIAL BID EVALUATION:

- a) For the evaluation of the Financial Bids, the eventual Bid prices shall be ascertained after considering all the terms and conditions associated with the Bid price specified in the Financial Bid document and after detailed scrutiny of the financial bid.
- b) No Bidder shall be allowed to propose/carry out any revision/correction



/ modification in his Price Bid offer.

- c) If there is a discrepancy between the sub total/s and the total price that is obtained by multiplying the unit price and quantity/adding the sub total/s, the sub total/s shall prevail and the total price shall be corrected, unless in the opinion of the Employer that there is an obvious misplacement of the decimal point in the sub total price, in which case the total price as quoted shall govern and the sub total/s shall be corrected;
- d) If there is an error in a total, corresponding to the addition or subtraction of sub totals, the subtotal/s shall prevail and the total shall be corrected; and
- e) The Bidder needs to fill the rates against each item in word as well as in figures as mentioned in BOQ (Financial Bid). In case of any discrepancy, the rate provided in word shall prevail and correct the amount against the item. **All the prices should be inclusive of all taxes and GST.**
- f) The amount stated in the Letter to Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and, shall be considered as binding upon the bidder. If the Bidder does not accept the corrected amount of Bid, the bid will be rejected.
- g) Contract negotiations, if any, will be held before the issuance of Letter of Acceptance/ Notification of Award. The negotiation shall conclude with a revised offer letter from the successful bidder, affecting the discounts if any and accepted by NATRAX.

## 20. Award of Work:

- a) Prior to the expiry of the period of Bid validity prescribed, NATIS will issue to the Successful Bidder, the Work Order. The Successful Bidder shall return one copy of the Work Order to NATRAX duly acknowledged and signed by the authorized signatory, within two [2] days of receipt of the same by him.
- b) NATRAX shall notify all the unsuccessful Bidders and discharge/ return their Earnest Money Deposit. No correspondence will be entertained by NATRAX from the unsuccessful Bidders.

## 21. Validity of bids:

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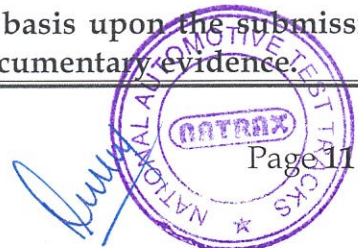
The rate quoted should be valid for a **minimum period of 90 days** from the last date of Submission of Quotation. No claim for escalation of rate will be considered at any point of time.

22. Prospective bidders requiring any clarification of the Tender may write to [a.prabhakar@natrip.in](mailto:a.prabhakar@natrip.in); [anuj.kumar@natrip.in](mailto:anuj.kumar@natrip.in),

23. The Bids / related correspondences shall be made in English language.

**B. Annexure-I(B)-Special Terms & Conditions:**

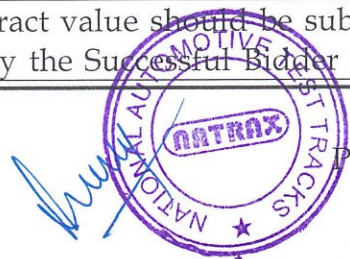
a.	<b>Scope of work</b>	Braking Track Maintenance & Repair of (Expansion/Contraction) joints, Tyre Safety Barrier/RCC KERB Along Tracks at NATRAX, Pithampur, Dhar (MP)
b.	Contract Period	60 Days from the date of Issue of Work Order (during non-testing time at Tracks).
c.	Engineer In-charge (EIC)	Shall be notified to successful bidder.
d.	Rate Firmness	The charges/rate quoted by supplier must be firm throughout the Contract period and no escalation of any kind is permissible.
e.	Defect Liability Period	Six month from the date of completion of work
f.	Payment, Mode and Retention	<ul style="list-style-type: none"> <li>i. 95% shall be paid on the completion of work on submission of invoice along with supporting document and certified by EIC.</li> <li>ii. Balance 5% shall be retained and paid after successful completion of Defect Liability Periods.</li> <li>iii. Payment shall be made after statutory deduction as applicable.</li> <li>iv. The payment shall be released within 15 working days from the date of certification by EIC.</li> <li>v. <b>Advance payment:</b> maximum 10% of contract value may be paid after receiving request from contractor and submission of bank guarantee of 110% of the requisite amount. An interest 10% per annum shall be charged on the outstanding advance payment. The said advance payment shall be released in minimum two instalments. Contractor has to submit a utilization certificate for the said advance payment.</li> <li>vi. <b>The GST/Taxes &amp; duties of Govt. will be reimbursed on actual basis upon the submission of original receipt / documentary evidence.</b></li> </ul>





Tender No. -NATRAX/PROC/C&I/22/42

		All the payments shall be made through RTGS only.
g.	Liquidated Damages	0.1% of the Contract Price per day to a maximum of 10% of the Contract Price.
h.	Project Facility / Place of Installation/delivery	NATRAX Site NH-52, Old Agra- Mumbai Highway, Near to Pithampur Flyover, Post Khandwa (Near Pithampur), Dhar District, Madhya Pradesh-454774
i.	Tender Document Fee	Free of Cost
j.	Bid Security/EMD	Not applicable
k.	Technical Specification applicable	The General Technical Specifications for the works shall be Specifications for Road and Bridge Works (Latest Revision) of Ministry of Road Transport & Highways, published by the Indian Roads Congress (herein after called MORTH Specifications). This part deemed to be bound into this document and the technical specification as per Annexure-II.
l.	Quantity Variations / Revision Rates	NATIS shall, having regard to the Scope of Works and the approved Contract Price, shall have power to order variations within the Scope of the Works as considers necessary or avoidable during the progress of the Works. Such variations shall form part of the Contract and the Contractor shall carry them out and include them in updated Programmes produced by the Contractor. Oral orders for Variations, unless followed by written confirmation, shall not be taken into account. There will not be any revision in rates for all the items provided in BOQ for any extent of variations, during the entire currency of the contract.  New rate or price shall be derived from any relevant rate or price in the contract BOQ. or New Rate or Price for NON BOQ items shall be finalized by the NATIS representative based latest Applicable DSR.
m.	Performance Security	3% (Three) of the Contract value should be submitted as Performance Security by the Successful Bidder on award







		of Contract. Performance Security may be furnished in the form of an A/C Payee Demand Draft, Fixed Deposit Receipt or Bank Guarantee from a Scheduled Commercial Bank favouring "National Automotive Test Tracks" & payable at Pilhampur and should remain valid for a period of Sixty days beyond the date of completion of all Contractual Obligations. The performance security shall be returned after 30 days of Defect Rectifications Periods (DLP) and recommendations of EIC.
n.	Other Terms and conditions	<p>i. The bidder should submit list of the equipments/machines with them. In case machines/equipments are planed to hire from others the rent agreement for hiring the same should be submitted.</p> <p>ii. No extra charge is payable for to and fro, boarding and lodging for the service personnel coming to NATRAX.</p>
o.	Water supply & Electricity Charges	<p>i. <b>Electricity:</b> the electricity shall be provided by NATRAX from the available source on chargeable basis. Theft of electricity shall be treated as breach of contract and in such case NATRAX reserve the right for penalty or termination of contract.</p> <p>ii. <b>Water supply:</b> the water for drinking purpose can be use from the available source at site, misuse/wastage apart from the above use, of water shall be treated as breach of contract and in such case NATRAX reserve the right for penalty or termination of contract.</p>
p.	Termination of Contract	If the work/service is found to be not satisfactory or not found as per the specification indicated in this document, the Service Contract will be terminated with short notice. Downtime penalty will be considered as one of the factors for gauging service efficiency.

The bidder should give the following, duly signed and sealed, failing to which the bids will be summarily rejected:

**DECLARATION:**



Tender No. -NATRAX/PROC/C&I/22/42

(To be executed on Bidder's letter head)

I/We having acquainted with the content & requirement of this Tender No. NATRAX/\_\_\_\_\_, dated \_\_\_\_\_ and do hereby accept to furnish the same in compliance with all terms & conditions. I/we have not tampered/modified the tender in any manner and breach of any such, will result in rejection of Tender and / or prosecuted.

I / We hereby declare that the firm/company has not been blacklisted or debarred in the past by any other Government organization from taking part in Government tenders.

In case the above information found false or in case of breach of any of terms and conditions at any stage of Tender or Contract, I/We are fully aware that the Tender/ Contract will be rejected / cancelled by NATRAX and Payments (for completed/partially completed), Retention, Bid Security (EMD), Performance Security, etc., shall be forfeited.

Signature of the Bidder: \_\_\_\_\_

Name and Designation: \_\_\_\_\_

Address: \_\_\_\_\_

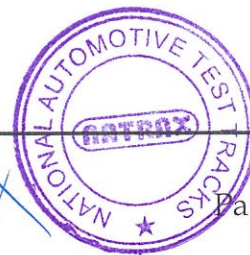
Contact details: \_\_\_\_\_

Place:

Date:

Seal of the Bidder's Firm

C. ANNEXURE - II - Technical Conditions of Contract:



*[Handwritten signature]*



Scope of work & Technical Specification:

TECHNICAL SPECIFICATION

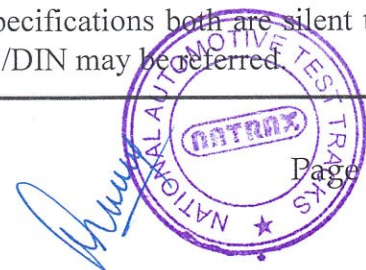
“Braking Track Maintenance, Tyre Safety Barrier along Tracks & Kerb Beam Along T-6 surface at NATRAX, Pithampur (near Indore)”

Preamble

1. The General Technical Specifications for the construction of the works shall be **Specifications for Road and Bridge Works (Fifth Revision) of Ministry of Road Transport & Highways, published by the Indian Roads Congress (herein after called MORTH Specifications)**. This part deemed to be bound into this document.
2. The Technical Specifications shall be read in conjunction with the other Sections of the bid documents as specified in Instruction to Bidders and other related documents
3. In case of any conflict on unit of measurement and payment in this specification and that in the BOQ, the unit in BOQ shall prevail.
4. The quantity provided in BoQ derived from the scheme drawings provided with tender Document, the work shall be executed as per approved GFCD'S only which will be submitted by contractor based on input provided in the tender documents.
5. The work in general shall be carried out as per Specifications for Ministry of Road Transport & Highways (MoRTH) Specifications for Road and Bridge Works ((Fifth Revision) and its latest amendments for which specification are not included in the specification, all such works in general shall be carried out as per latest (MoRTH) Specifications as describe below: -

I) The work in general shall be carried out as per latest (MoRTH) Specifications (updated with correction slips issued up to last date of submission of tender) unless otherwise specified in the nomenclature of the individual item or in the particular specifications for civil works and CPWD specification, and latest or 1994 for electrical work updated with correction slips issued Upto last date of submission of tender.

II) For items not covered under “(MoRTH) Specifications (Civil Works)/ latest CPWD specification”, the work shall be done as per latest relevant IS Codes of Practice. In any particular matter if (MoRTH) specifications and IS specifications both are silent than any other relevant codes of practice like ASTM/AASTHO /DIN may be referred.



6. In the absence of any definite provisions on any particular issue in the aforesaid Specifications, reference may be made to the latest BIS codes and specifications of BIS, BS, ASTM or AASHTO in that order. Where even these are silent, the construction and completion of the works shall conform to sound engineering practice as approved by the Engineer in charge and in case of any dispute arising out of the interpretation of the above, the decision of the Engineer-in-charge shall be final and binding on the Contractor.
  
7. Whenever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards which ensure an equal or higher quality than the standards and codes specified will be accepted subject to the Engineer's prior review and written approval. Differences between the standards specified and the proposed alternative standards must be fully described in writing by the Contractor and submitted to the Engineer's at least 28 days prior to the date when the Contractor desires the Engineer's approval. In the event the Engineer determines that such proposed deviations do not ensure equal or higher quality, the Contractor shall comply with the standards specified in the documents.

PART-A TECHNICAL SPECIFICATION

SECTION-600 CONCRETE PAVEMENT- refer relevant clause of Joints for pavement, attached for ready reference

SECTION 2600: EXPANSION JOINTS- Attached herewith for ready reference

APPENDIX 1700/1- SPECIFICATION FOR CONSTRUCTION JOINTS- Attached herewith for ready reference.

CPWD relevant Specifications shall be followed for execution of Kerb Beam along Gravel & Off Road Surface.

**ADDITIONAL TECHNICAL SPECIFICATION FOR SPECIAL WORKS:**

**Clause A-01: Joints of Surfaces- following shall be carried out as per MoRTH clause 600**

- a) Joints between Datum Kerb and Surface shall be opened after removal of sealant and backer rod
- b) Joints shall be properly cleaned, and extra material shall be removed up to required width/depth available and make them dust free.





- c) Joint Cutting shall be done to define pavement joints in order to prevent cracks (if applicable).
- d) The cuts should be transversal/longitudinal along the full width of the lane and should be done every 5m interval in order to form separated slabs up to 20sqm. Cuts should be 1/3 deep of slab thickness in order to prevent cracks in pavement (if applicable).
- e) Once the cleaning/cuts are done, the surface needs to be cleaned using a blower and sealed using backer rod/expansion/contraction sheet to prevent clogging during upper layer activities.
- f) All Joints shall be sealed using a flexible material as per Specification up to special/tile/bituminous surface top.

**Clause A-02: Removal of stains & Descaling of Tiles of Braking Track surface-**

following are the brief guideline, contractor may also provide the suitable method to maintain the friction at surface and shall be carried out as follows

- a) For the descaling of the basalt tiles the following procedure is proposed (it is also recommended to validate this procedure with the trial on basalt tiles/ceramic tiles/polished concrete surface before starting any descaling works):
- b) Basalt/Ceramic Tiles/Polished Concrete surface shall be cleaned by broomer/Air Compressor to remove dust, fine particle and aggregate if any and watering before start of operation (air compressor provided by NATRAX).
- c) This operation shall be carried out before joint filling of surface- This operation is not focused on rectifying tiles levelling but to remove surface stains and scales marks. Buffing of the tiles by automatic polisher/buffing after Grinding/suitable method is used to obtain a suitable friction value, which can easily be maintained with minimum maintenance.
- d) The area to be polished/buffed/grind and should be maintained in a clean and dry condition; protection of the area by a portable cover if required.
- e) Immediately before polishing/buffing/grinding/descaling (as applicable), the tiles must be swept with a soft broom.
- f) During/after Each descaling/buffing operation, BPN of surface shall be checked and recorded against each grinding /polishing/descaling operation
- g) Suitable diesel/electric polishing/buffing/grinding/descaling (as applicable) machine (or similar), grind one square metre using Carborundum Grinding Stones/pads/grit (COARSE) for a period of 5 minutes.



- h) As method outlined in (g) above using Carborundum Grinding Stones/pads/grit (MEDIUM) descaling/polishing shall be done.
- i) After the operation, the surface shall be Sweep clean.
- j) As method outlined in (g) above using Carborundum Grinding Stones/pads/grit (fine) descaling/polishing shall be done.
- k) Using a “special arrangement buffing machine” or single head polishing machine (or similar) polish an area of one square metre using a 3M Thick line High Speed Buffing Pad (trial) for a period of 10 minutes.
- l) After every descaling/polishing operation, surface shall be Sweep clean properly as per requirement.
- m) As method outlined in j above but using a 3M Thick line High Speed Buffing Pad (based on trial) for a period of 5 minutes.
- n) Using a Portable Skid Resistance Tester to A.S.T.M. Standard E303, test the area descaled/polished (one square meter) in three separate places. Result should average between 28 – 32. This testing should be done on wet tiles.
- o) Assuming the satisfactory reading being obtained initially, carry out method outlined in m above at purely random intervals for the remaining areas.

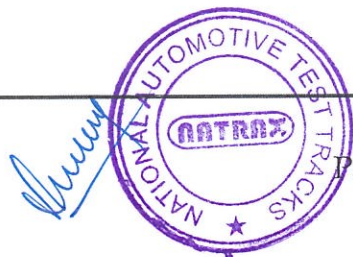
Inspection and acceptance criteria of the surface level:

Level of all the layers will be checked in the grid of W/4x5.0m (where W is total width of surface)- in order to check two longitudinal axes. Levels obtained to be compared with the theoretical levels. Equipment required for this activity is standard topographical high precision equipment. (Validated with a calibration certificate).

Acceptance criteria are the maximum distance in absolute level between the theoretical and the real surface:	ACCEPTANCE CRITERIA
Wearing course –	1-2 mm

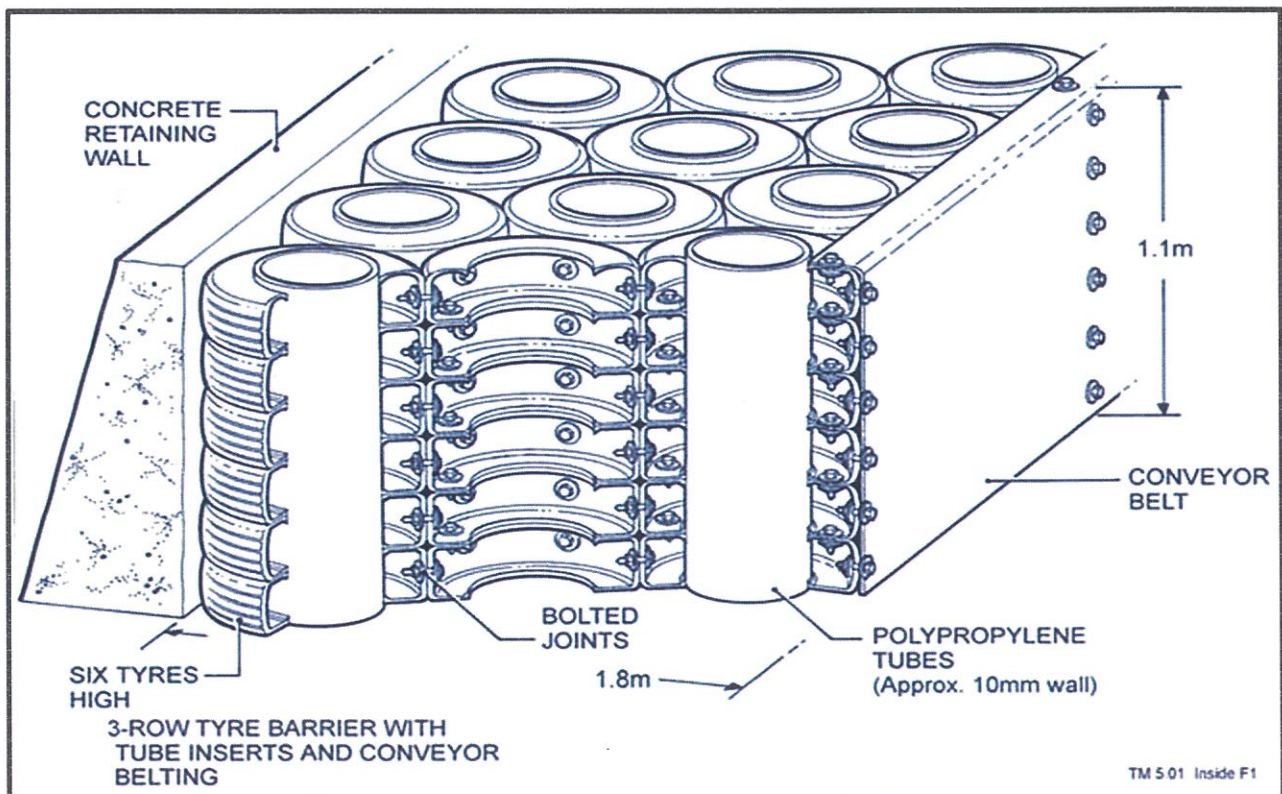
**Clause A-03: Tyre Barrier along the Critical area of Tracks-**

following are the brief guideline, contractor may also provide the suitable method to connect the tyre from all sides as shown in the picture below, as well as the bolts along with washer and nut shall be provided by contractor as applicable.



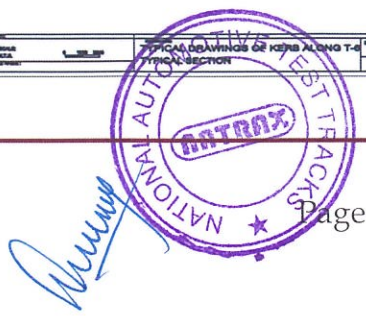
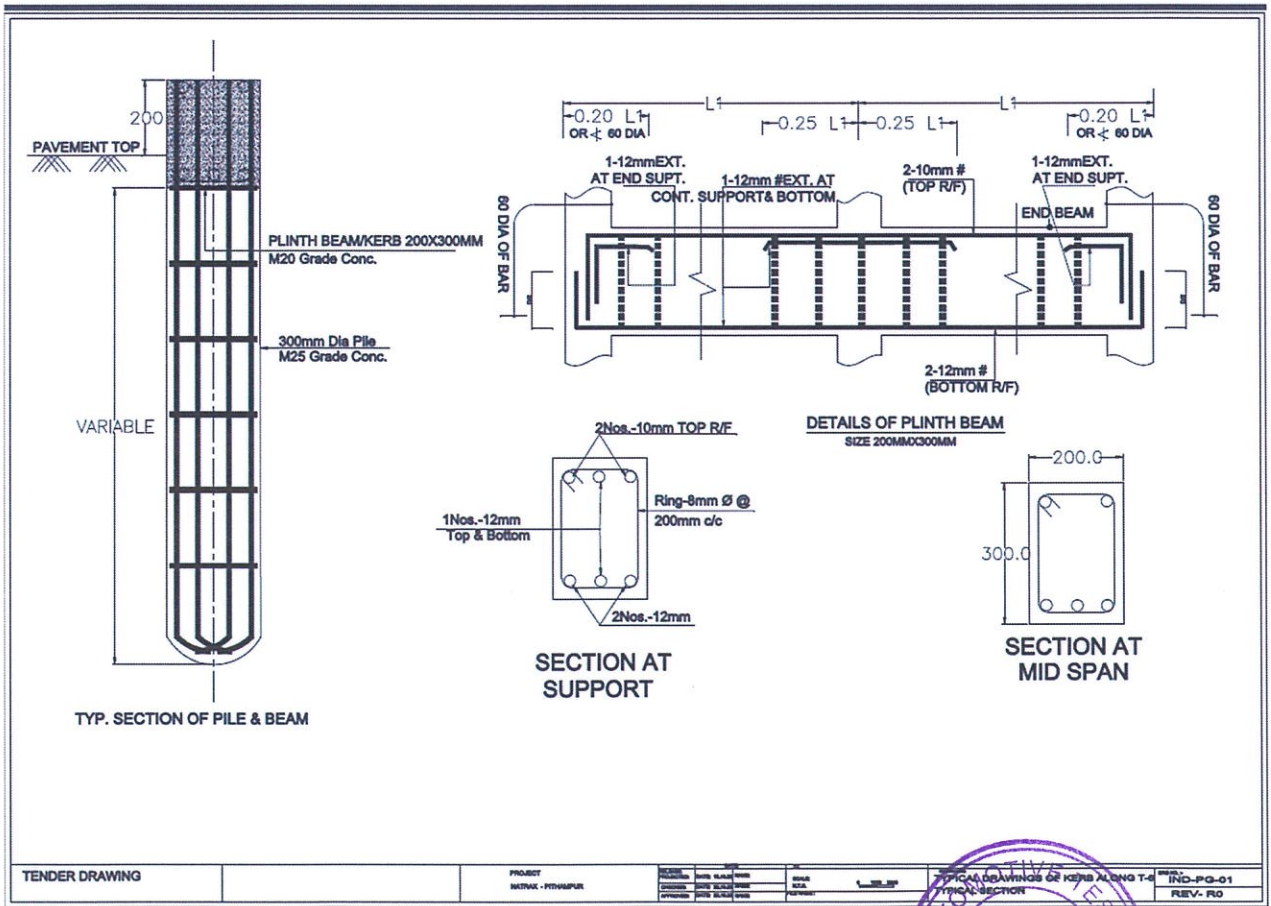
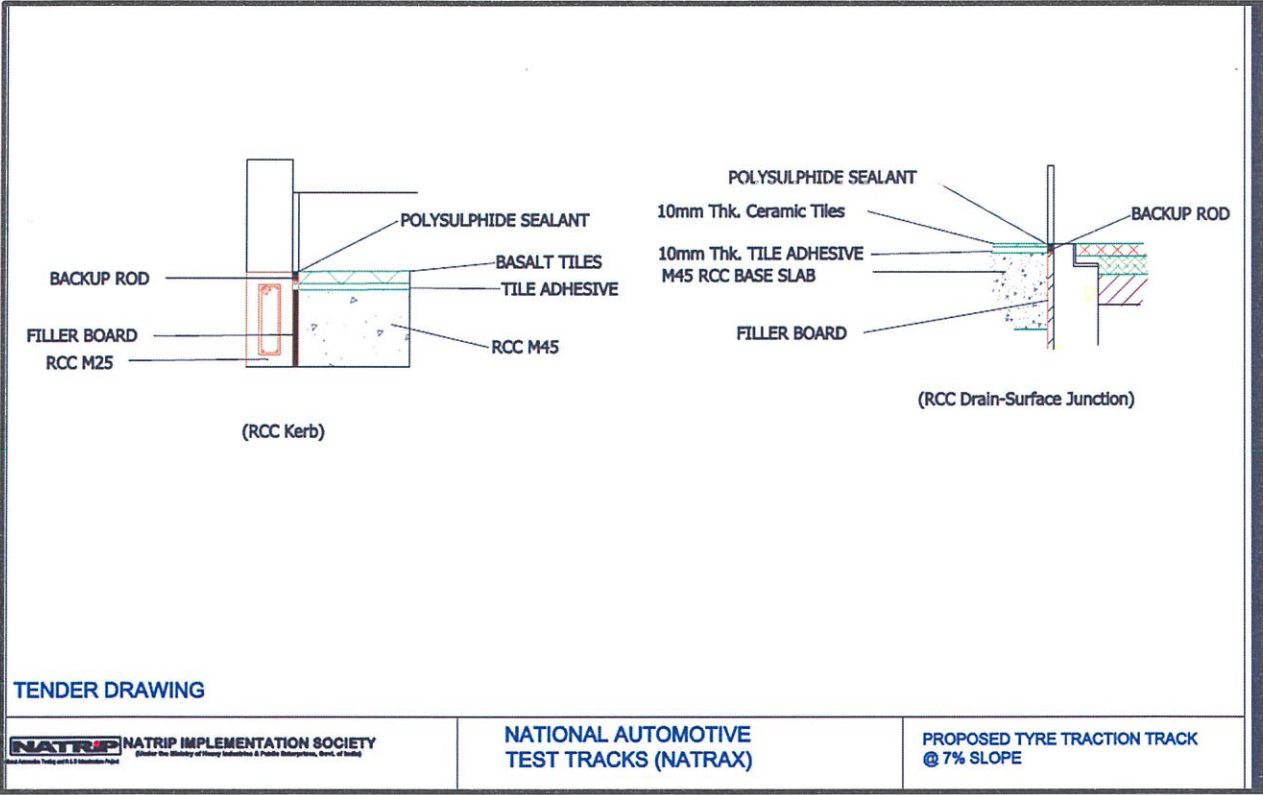


- a) Identify the tyre having like size with other connecting tyres.
- b) Drill the hole as per M10 Bolts in the upper/lower wall of connecting tyre.
- c) Place the tyre on each other by matching the hole and insert the washer with bolts & nuts from both side and fix 4 tyre and make stack of tyre.
- d) Banded Tire Wall - Several stacks of tires (bolted together into a unit or with polyethylene tubes). Tires are usually guarded by a rubber conveyor belt or plastic strapping woven with the help of machine for effective tightness.
- e) Stacks shall be placed at the specified location of the Tracks @ T-3/T-7 and connect the tyre stacks with each other as per © above from side wall.
- f) Make the stacks as per the picture below and direction of EIC.

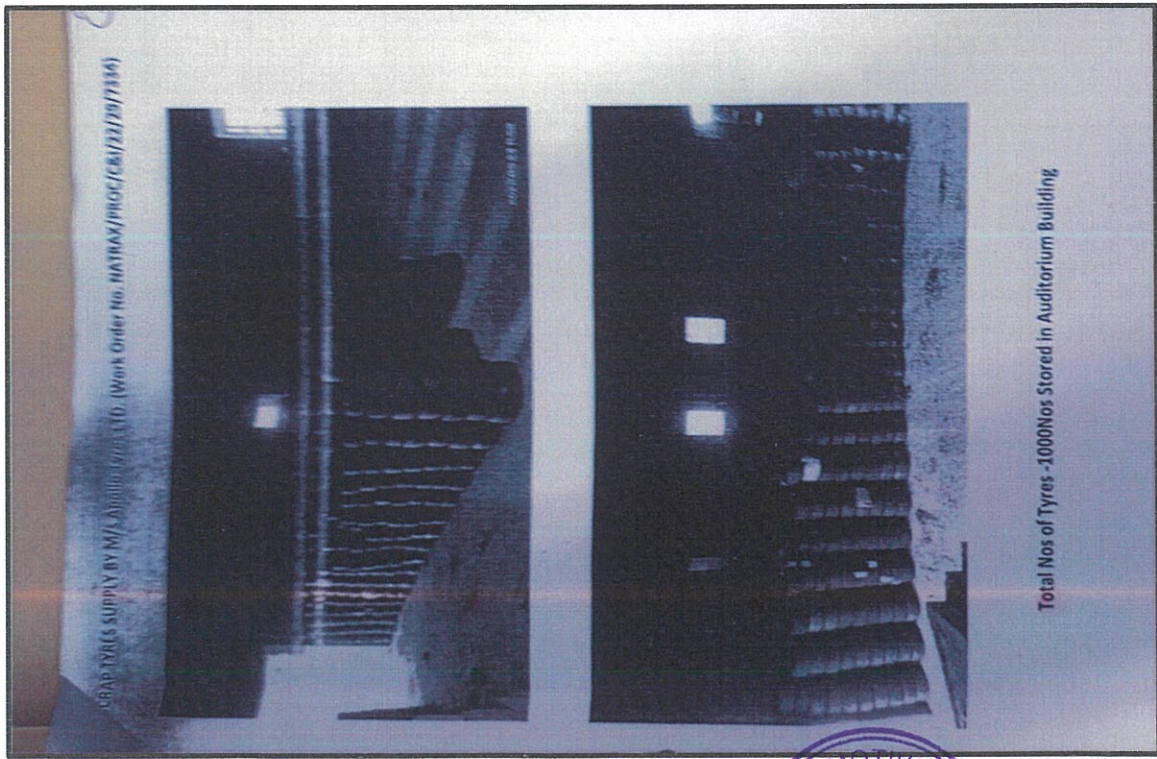






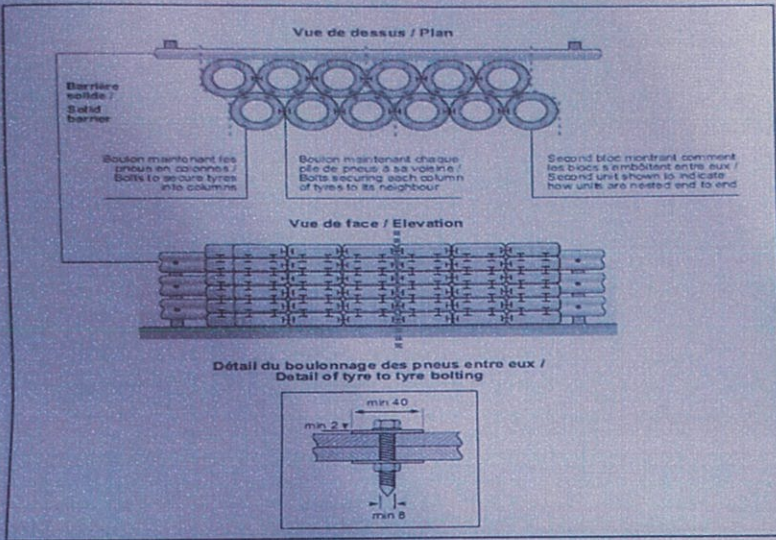




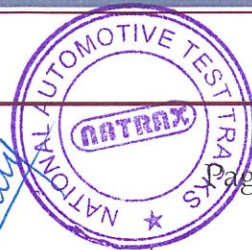
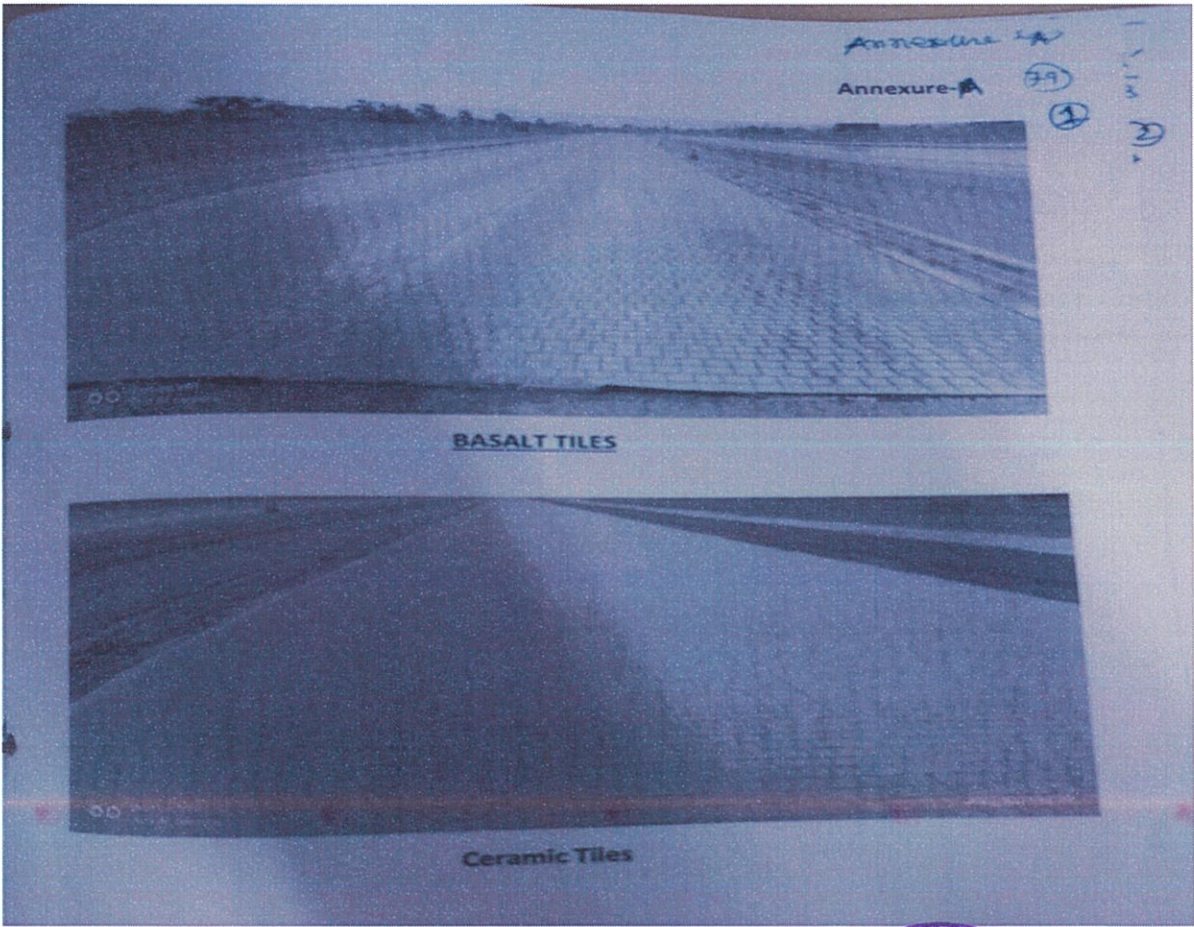




The following sketch shows the bolting method for tyres protection according to the FIA. ④



Specifications for tyre barriers installation







Tender No. -NATRAX/PROC/C&I/22/42

**D. Annexure-III- Form for the submission of Financial Bid**

**Financial Proposal Submission Form**  
(To be Executed on Letterhead of the Bidder)

**FINANCIAL PROPOSAL SUBMISSION FORM**

[Location, Date]

To:

The Head Procurement  
NH-52, Old Agra- Mumbai Highway,  
Near to Pithampur Flyover,  
Post Khandwa (Near Pithampur)  
Dhar District, Madhya Pradesh-454774

Dear Sir,

We, the undersigned, offer to provide the equipment & services in accordance with your Tender No. \_\_\_\_\_, dated \_\_\_\_\_ and our Technical Bid. Our attached Financial Bid includes the price in the format for financial bid provide as part of tender documents. The total price of our offer is \_\_\_\_\_ (in figures and words) and includes all the deliverables under this tender as per our Technical Bid.

We hereby declare that all the information and statements made in this Bid is true and complete in all respects and is as per the guidelines and terms & conditions laid down in the tender document. We further understand that any information which is found false or is not as per the guidelines and terms & conditions of the tender document may lead to our disqualification.

Our Financial Bid shall be binding upon us subject to the modifications resulting from Contract negotiations, up to expiration of the validity period of the Bid.

We understand NATRAX has right to accept or reject our Bid as per its discretion.

Yours sincerely,

Authorized Signature [In full]: \_\_\_\_\_

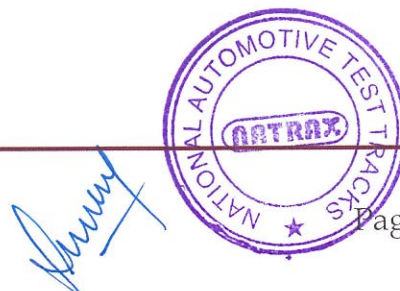
Authorized Signature [In initials]: \_\_\_\_\_

Name and Title of Signatory: \_\_\_\_\_

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

Address: \_\_\_\_\_

[Note : To be signed in blue ink]





Bill of Quantities (BOQ)/Financial Bid

Item No	Item Description	Unit	Quantity	Rates in Figure	Rates in word	Amount in Rs
<b>A</b>	<b>Repairinf of T-3 surface/T-4/T-11</b>					
<b>1</b>	Removal of existing sealant and backer rod of contraction, longitudinal or expansion joints in concrete/Bituminious pavements without affecting the adjacent surface as per direction of Engineer-In-Charge	<b>RMT</b>	<b>4165</b>			
<b>2</b>	Providing & fixing 30mm thick compressible fibre board in expansion joint complete as per drawing & Technical Specification.	<b>Sqm</b>	<b>10</b>			
<b>3</b>	Filling the gap in between adjacent Bituminous and Concrete surface including providing and fixing of backer rod by providing weather/structural non sag elastomeric PU sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete, complying to ASTM C920, DIN 18540F & ISO 11600- <b>Upto 20 mm depth and 20 mm width</b>	<b>RM</b>	<b>1500</b>			
<b>4</b>	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge. Using grade 'A' sealing compound conforming to IS: 1834.	<b>PG cm depth PG cm width PG CM Length</b>	<b>1875</b>			

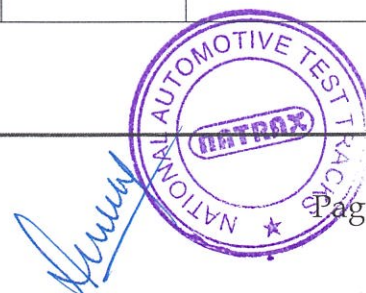


5	<p>Cleaning and removal of scale formed on Ceramic and Baslat times after Performing Polishing work with specialised machinery, pad of special no. to avoid any damage to surface, including checking of BPN after every cleanin work and match the same with the earlier data as provided by EIC/Engineer this operation also includes cleaning of drain and covering of adjacent surface of Braking Track etc. all complete. Contractor to take all safety and precautinary measures during the polishing/cleaning operation as per direction of Engineer-In-charge.</p>	Sqm	4165			
	<b>Total amount Rs. (A)</b>					
<b>B</b>	<b>Tyre Fixinf at T=3 &amp; T-7</b>					
6	<p>Fixing Tyre of variable size heavy body shall be jointed to each other up to 1mtrs height or 3-4 tyre and bolted with anti corrosion screw as per given drawing or as aproved by Engineer in charge. after jointing it will be placed at desired location (T-3 &amp; T-7) including transpotation, loading unloading, placing and all items involved to make proper joint or as per procedure recommended by or direction of Engineer-in-charge. <b>(Scrap Tyre shall be provided by NATRAX)</b> (Each set comprises 3 nos. tyres)</p>	Each set	335			
	<b>Total amount Rs. (B)</b>					







<b>C</b>	<b>Kerb beam along Chip &amp; Cut track surface</b>					
<b>7</b>	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.All kinds of soil/	<b>Cum</b>	<b>45</b>			
<b>8</b>	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	<b>Cum</b>	<b>6</b>			
<b>9</b>	Providing and laying in position specified grade M-20 mix of reinforced cement concrete work, (with 20mm nominal size graded stone aggregates) but excluding the cost of centering, shuttering,finishing and reinforcement, All works upto plinth level	<b>Cum</b>	<b>21</b>			
<b>10</b>	Centering and shuttering including strutting propping etc and removal of form for Foundation footing bases of columns etc for mass concrete	<b>Sqm</b>	<b>180</b>			
<b>11</b>	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	<b>MT</b>	<b>4.04</b>			



12	Filling available selected excavated earth (excluding rock)in trenches plinth sides of foundation etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering lead upto 50 mts and lift upto 1.5 mts	Cum	45			
13	Boring, Providing and installing cast in situ single under reamed piles of specified diameter and length below pile cap in M-25 cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with bentonite solution and the length of the pile to be embedded in pile cap etc. all complete. (Length of pile for payment shall be measured upto to the bottom of pile cap) : 300 mm dia piles	Mtr.	150			
	<b>Total amount Rs. (C)</b>					
	Total Amount (A+B+C)					
	Add GST					
	Total Amount					

Signature of bidder



ANNEXURE -IV

NATRAX Bank details to be used for submission of EMD/Tender Fee (if any) & procedure for passwords protection

Bank of Baroda  
पैक ऑफ बरौदा  
Bank of Baroda

पैकानुसुर धार - ४५५१७५  
PITHAMPUR, DHAR - 454775  
RTGS / NEFT IFSC CODE : BARB0PITHAM

जारी की गई धारक से तीन माह के लिए वैध / VALID FOR THREE MONTHS FROM THE DATE OF ISSUE

CBS  
सेविंग्स खाता SAVINGS ACCOUNT

Pay \_\_\_\_\_ or Bearer  
Rupees रुपये या धारक को

अदा करें ₹ \_\_\_\_\_

आ. सं.  
A/c No. 57730100011758

FOR NATIONAL AUTOMOTIVE TEST TRACKS NATRAX DIVISION

SB/2012/UF भारत की सभी शाखाओं पर समतुल्य दर देना  
Payable at par at all branches in India PIT

AUTHORISED SIGNATORY  
Please sign above

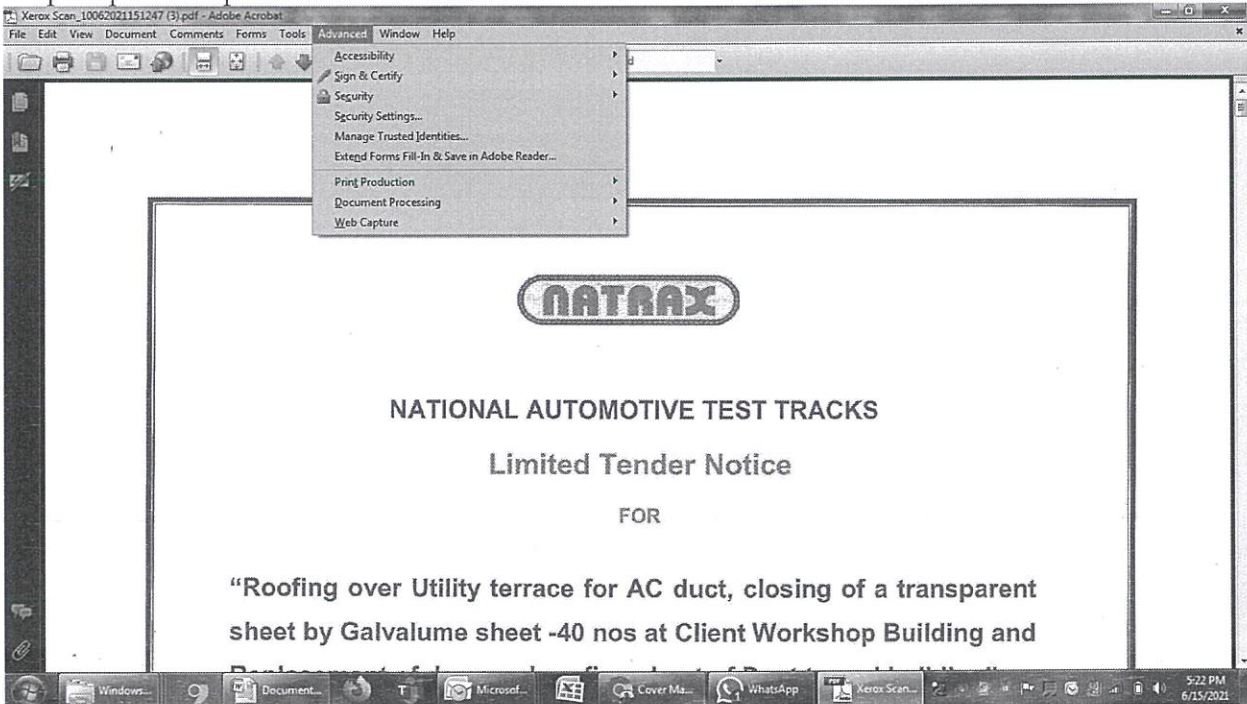
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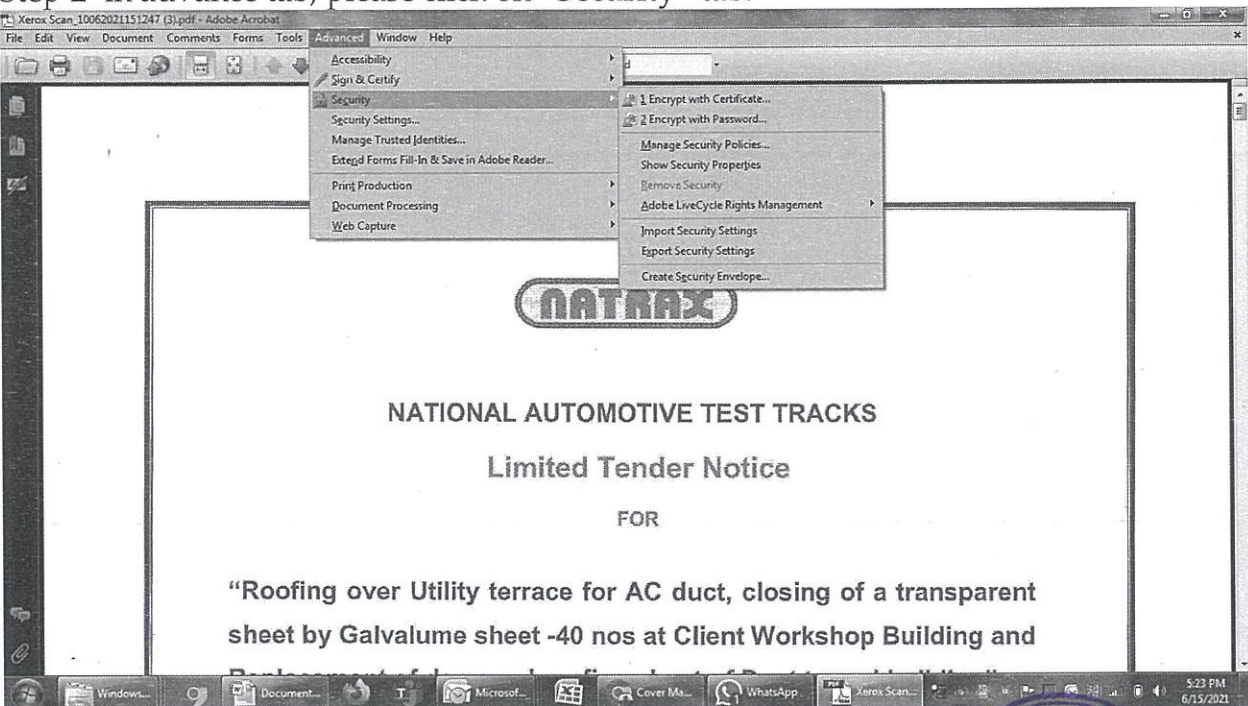
Method of submission (online through email)

Steps for loading passwords in PDF Files-Method I

Step 1- please open PDF file and click on "Advance" tab.

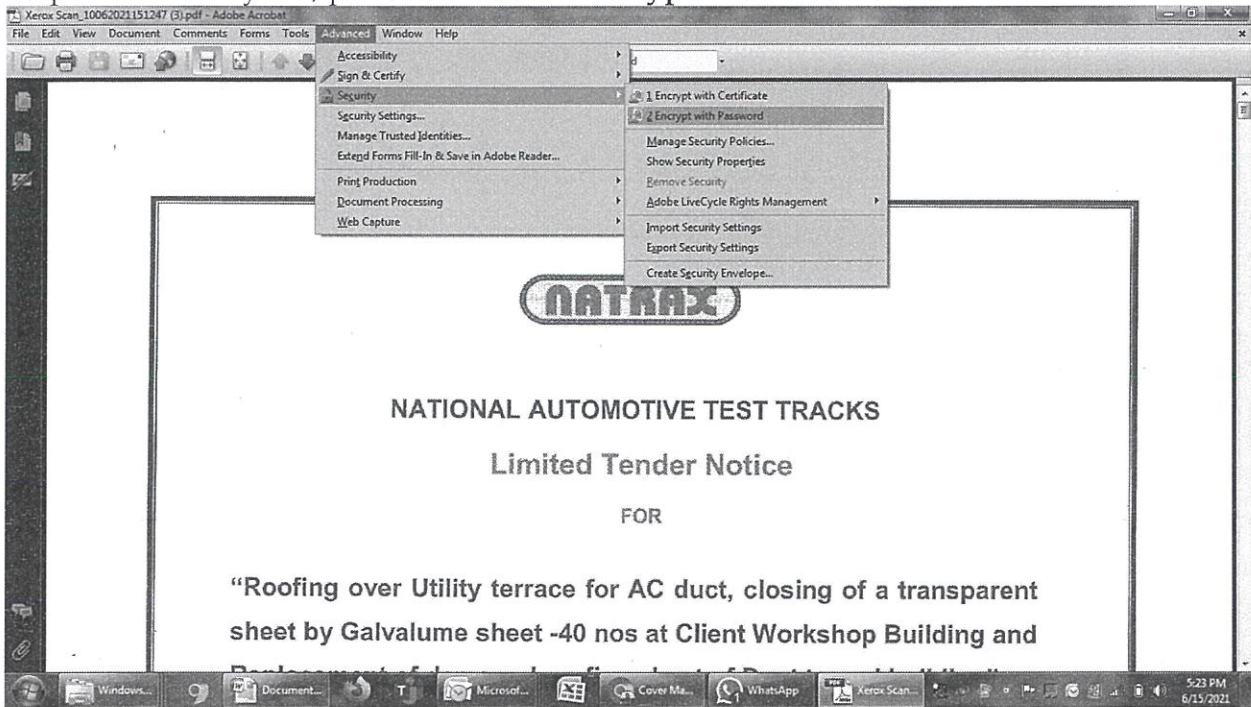


Step 2- in advance tab, please click on "Security" tab.

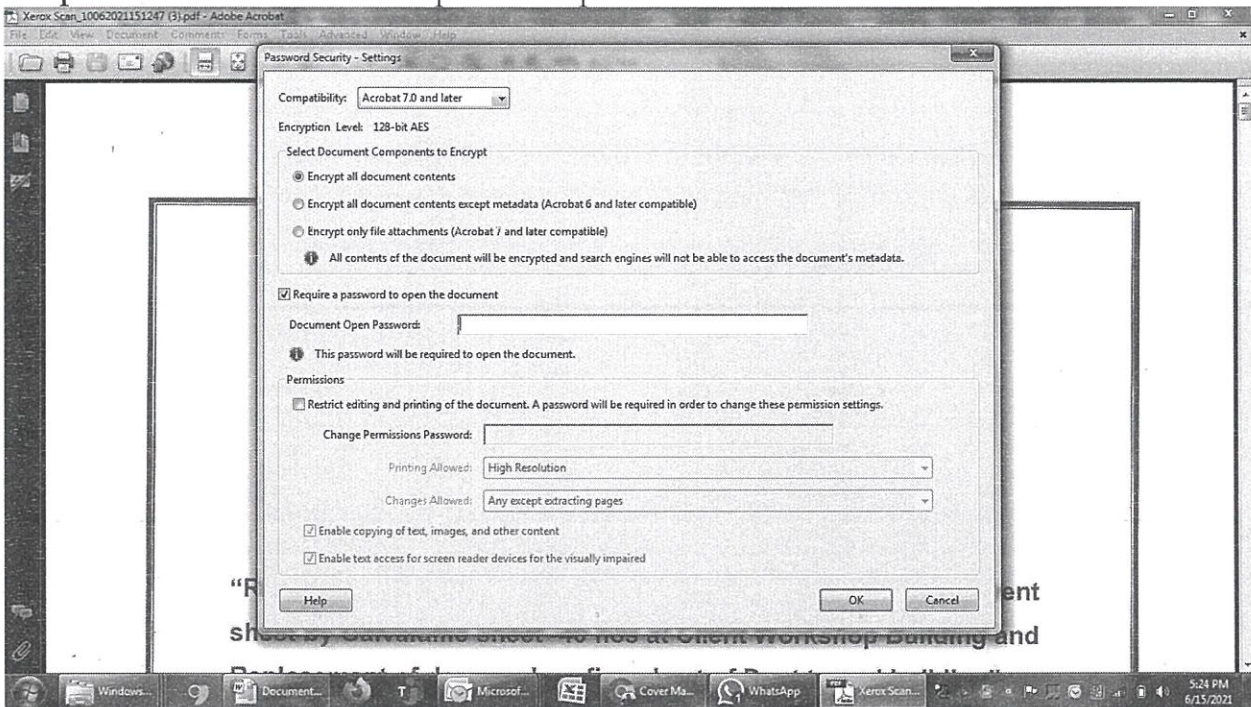




Step 3- in security tab, please click on "2 Encrypt with Password".



Step 4- after that below window will open, please check in option "Required a password to open the document". Then please fill password and click "ok".



Step 5- after that below window will be open, please fill same password again, and click "ok".

