



NATIONAL AUTOMOTIVE TEST TRACKS

Tender Document

For

**CONSTRUCTION OF SHED (VIEWER GALLERY) NEAR
CRASH BARRIER TESTING FACILITY**

At

NATRAX

PITHAMPUR, DIST. DHAR (Madhya Pradesh)

Tender No. - NATRAX/PROC/C&I/22/40

National Automotive Test Tracks (NATRAX)

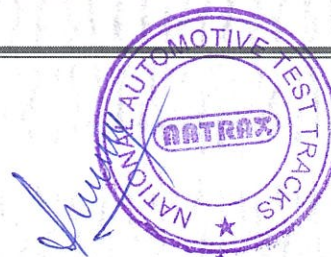
NH-52, Old Agra- Mumbai Highway, Near to Pithampur Flyover,

Post Khandwa (Near Pithampur)

Dhar District, Madhya Pradesh-454774

Phone: +919893892310, Fax - 07292-256101

Email: a.prabhakar@natrip.in, 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).

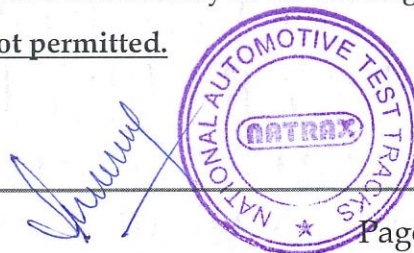
The National Automotive Test Tracks (NATRAX), invites **Password Protected Quotation/Bid** from the registered, qualified and experience under Limited tender enquiry (LTE) in the prescribed Proforma for performing, executing and implementing the works on the terms and conditions contained in this Bid document. Brief Description of works and the timelines for NIQ 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
CONSTRUCTION OF SHED (VIEWER GALLERY) NEAR CRASH BARRIER TESTING FACILITY AT NATRAX PITHAMPUR (M.P.)	30 days from the date of Issue of Work Order.	Nil	07 th Nov 2022	14 th Nov 2022 at 15:00 Hrs	14 th Nov 2022 at 15:30 Hrs	Rs. 15 Lakh

The Bidder(s) who meet the Minimum Eligibility Criteria (MEC) as mentioned in the Instructions to Bidder (ITB) may be eligible to become successfully in the Bidding process.

The bidder(s) in the form of JV/Consortium is not permitted.

2. Quotations/Bid Submission details:





- a. Password protected Bid/Quotation is to be submitted by the Bidder 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, anuj.kumar@natrip.in,

OR

Sealed Bids/quotations may also be submitted in the hard copy in 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.

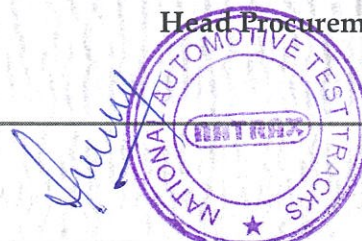
- b. No Bids will be accepted after the aforesaid date and time. However, on exceptional cases, NATRAX reserves the right to extend the time/last date of submission of Bid to a next convenient date/time before opening of the Bids.
- c. Bids sent telegraphically or through other means of transmission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



A. INSTRUCTION TO BIDDERS (ITB)

1. Bidders are required to submit their Bids in a **Password Protected PDF** format, named as **"Bid for Tender No. NATRAX/PROC/C&I/22/40"** on the subject of the email, containing **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 Bid/quotation may also be submitted in the hard copy containing Technical bid and financial bids in single sealed envelope at NATRAX office in the aforesaid date and time. However, Bidders are encouraged to Bid/quote through electronic mode in order to avoid Covid pandemic.

Incase of online Bid submission, the password of the document shall be submitted by the Bidder at the time of the opening of Bid.

2. **Bid Opening:**

The bid shall be opened by the committee of NATRAX Officials in the presence of bidder (if available) for further scrutiny, evaluation, ranking & placement of order.

- a) During the technical bid evaluation process, NATRAX may ask clarifications to the bidder through E-mail or in writing for confirming and consolidating their technical offers.
- b) All such clarifications are required to be answered by the bidder by E-mail, within the time specified by NATRAX.

3. The Contract shall be governed by the terms and conditions specified in this tender document including ammendments, work order etc., .

4. 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".

5. Bidder 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.,

6. **Minimum Eligibility Criteria:** - The bidder should fulfill either of the following two (A OR B):

A. The bidder should have valid registration with NATRAX under vender registration.

Or

B. The bidder should meet the following criteria:

i. **Legal valid entity:** - it shall be valid legal entity in form of Proprietor/partnership/LLP/Pvt. Ltd company/Govt. entity/Limited Company/autonomous body etc, and should have valid registration with appropriate governing authority. To supporting this, proof should have to be submitted along with quotation.

ii. **Turnover:** it should have minimum turnover of Rs. 45 Lakhs during last 3 FY (2018-19, 2019-20, 2020-21), to supporting this, bidder have to submit a copy of balance sheet/CA Certificate clearly indication the turnover and UDIN should also mandatorily mentioned on the same, along with quotation.

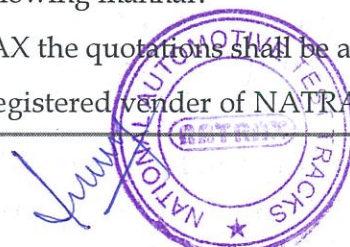
iii. **Experience:** it should have minimum 3 years' experience in similar work*.

Similar works* - successfully completed Works pertaining to construction of Buildings / Industrial shed/ PEB Building etc. To supporting this, copy of valid work order & completion certificate should be submitted with quotation. *In case, work order & completion certificate issued by other than Govt. entity, NATRAX reserve the rights to seeking the 26AS or TDS certificate for the relevant period for authenticity of said order & certificates.*

Exemption: valid MSME/Startups registered firms shall be exempted from above B (ii & iii) subject to submission of valid registration certificate and supporting documents for technical competency.

7. **Opening & Evaluation of Quotations:** the bids shall be opened by the committee of NATRAX officials, and shall be evaluated in following mannar:

7.1. If the bidder is registered vender of NATRAX the quotations shall be accepted for comparission of quoted rates. If bidder is not registered vender of NATRAX than the

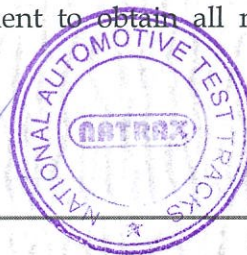
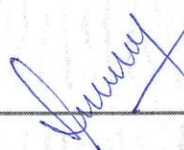


evaluation shall be done as per below:

i. in first instance- the quotations shall be evaluated as per the MEC defined as above 6 (B) and the quotations of such bidders only whom meets the MEC shall be considered for comparison.

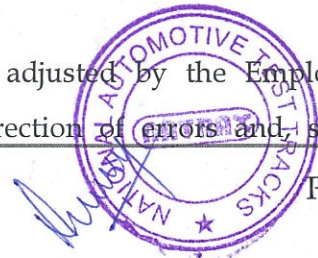
The bids of the bidders whom will not meet the MEC shall be disqualified and not considered further.

8. The Bidders are expected to carefully examine all the contents of the Tender documents 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. Bids which are not responsive to the requirements of the Tender will be rejected.
9. 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.
10. 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 in the design 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.
11. 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 and drawings to achieve end results and deemed to be priced in the other items. No claim on this account shall be entertained.
12. The successful Bidder should make his own arrangement to obtain all materials required for the work.





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 quotations, 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. **Quoted Rates:** The rate should be quoted both in words and figures on NATRAX prescribed format duly signed & stamped by the Bidder, incase any discrepancy, rate quoted in word will be preferred. All statutory deductions shall be applicable while releasing payments. All corrections and overwriting should be initialed by the Bidder.
 - a) 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.
 - b) 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.

19. **Contract negotiations:** If required, NATRAX reserve the right to negotiate with the L-1 bidder only, before the issuance of work order/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:** Prior to the expiry of the period of Bid validity prescribed, NATRAX 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.
21. **Validity of bids:**
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. Bidders requiring any clarification of the Tender may write to a.prabhakar@natrip.in; anuj.kumar@natrip.in,
23. The Bids / related correspondences shall be made in English language.
24. **Special Terms & Conditions:**

a.	Scope of work	CONSTRUCTION OF SHED(VIEWER GALLERY NEAR CRASH BARRIER TESTING FACILITY AT NATRAX PITHAMPUR (M.P.)
b.	Contract Period	30 days from the date of Issue of Work Order.
c.	Engineer In charge (EIC)	Shall be notified to successful bidder.
d.	Retention Amount	Five (5%) of each Running bill
e.	Date of Release of Retention	After Completion of Defect Rectification Period
f.	Defect Rectification Period (DRC)	180 days from the date of issuance of completion certificate by EIC.

g.	Completion certificate	Shall be issued within 7 days from the satisfactory completion of works.
h.	Payment, Mode and Retention	<ul style="list-style-type: none"> 95 % payment shall be made on submission of Interim payment application (IPA's) in 10 days span. The IPA's should be supported along with required documents as directed by Engg. In-charge, and payment shall be released based on certification by Engineer-in-Charge. Balance 05% shall be retained as retention money and shall be released on completion of defect rectification period. Payments shall be made within 10 days from the date of certification of Interim payment certificate (IPC) by EIC at site. The GST/Taxes & duties of Govt. will be reimbursed on actual basis upon the submission of original receipt / documentary evidence. All the payments shall be made through RTGS only.
i.	Liquidated Damages	0.1% of the Contract Price per day to a maximum of 10% of the Contract Price.
j.	Quantity variation	+/- up to 25% of Contract price on same rates.
k.	Electricity	Free of cost
l.	Price escalation	Not applicable
m.	Insurance	Labour Insurance
n.	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
o.	Performance Security	Not applicable
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.
q.	Safety	No work permitted without Safety arrangement like safety belt, helmet. Etc.
r.	Tools, Tackles, Scaffolding, painting tools & other arrangements	Arranged by Vendor
s.	Specification for scope of all works	Shall be executed as per MPSOR 2022 and drawings





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

26. **DECLARATION:**

(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: _____

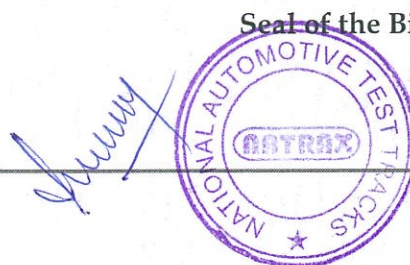
Address: _____

Contact details: _____

Place:

Date:

Seal of the Bidder's Firm

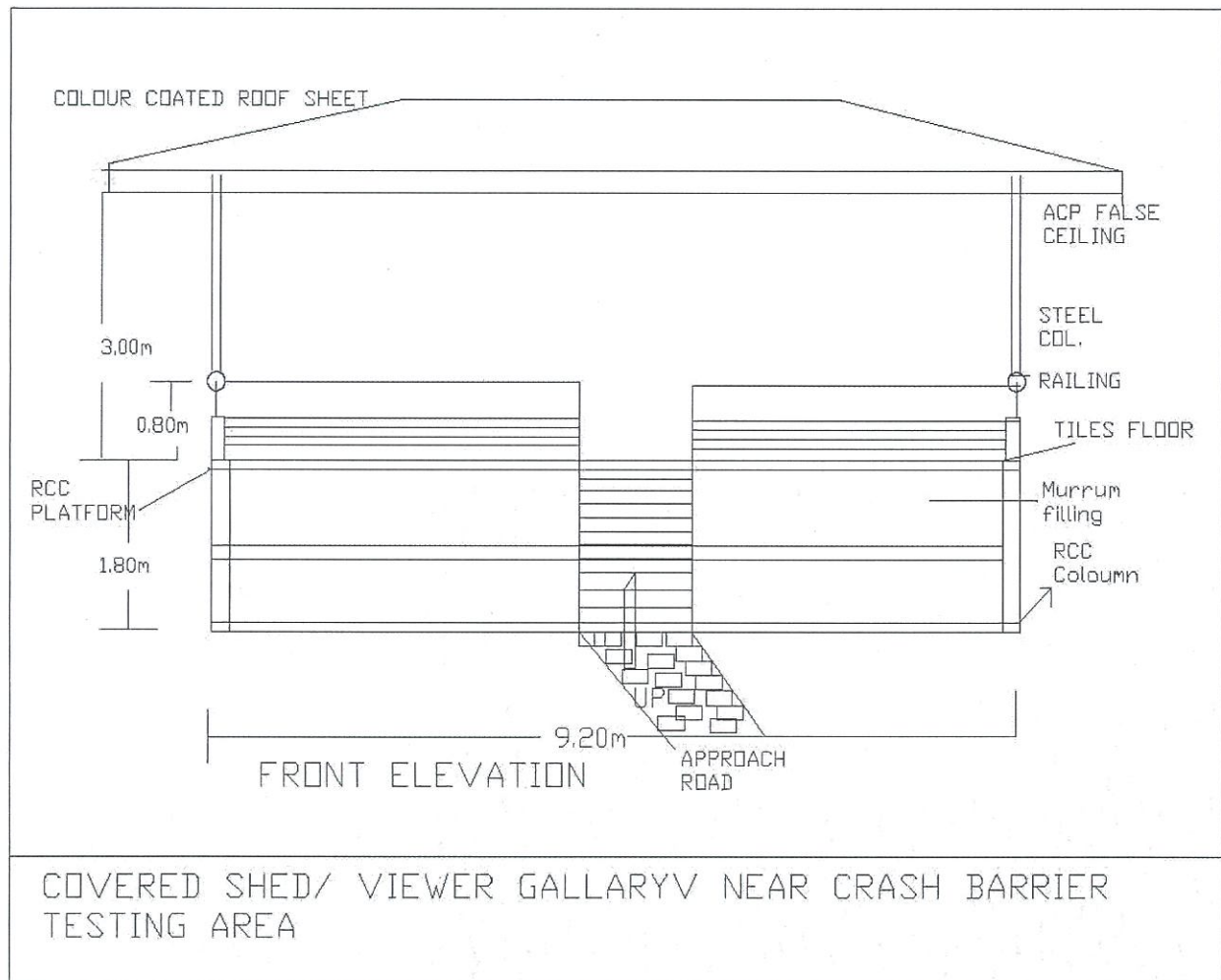


ANNEXURE - II

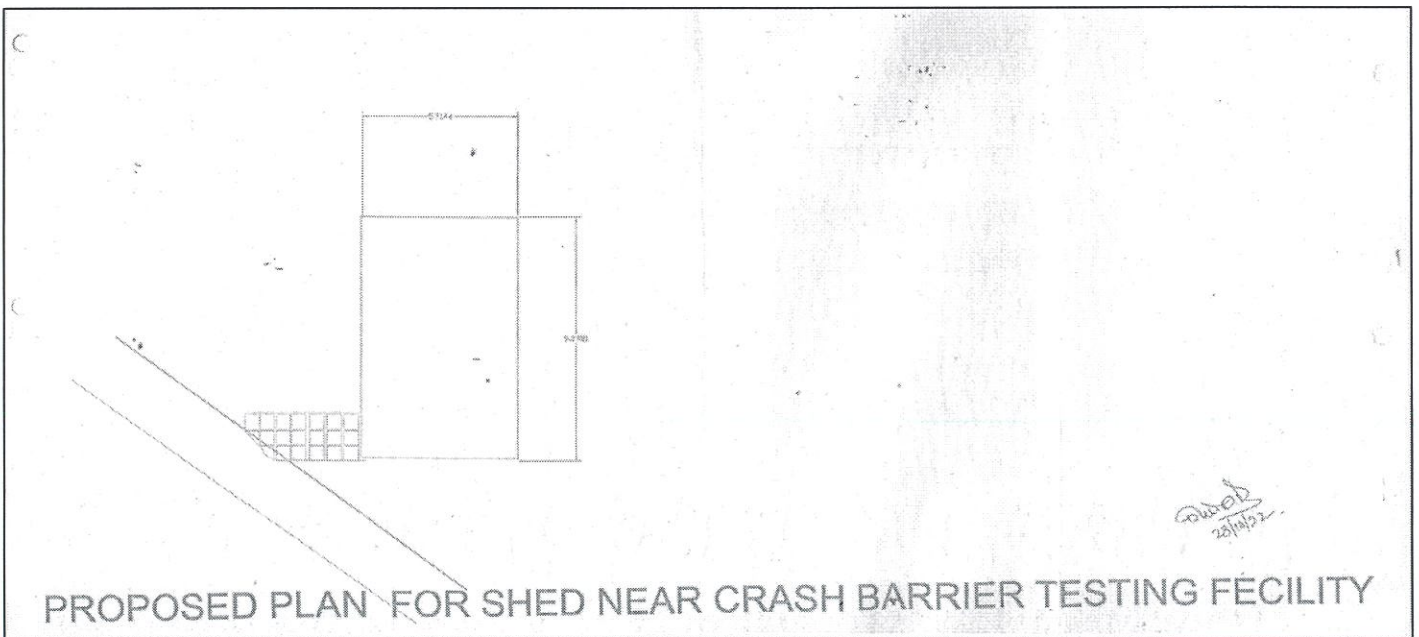
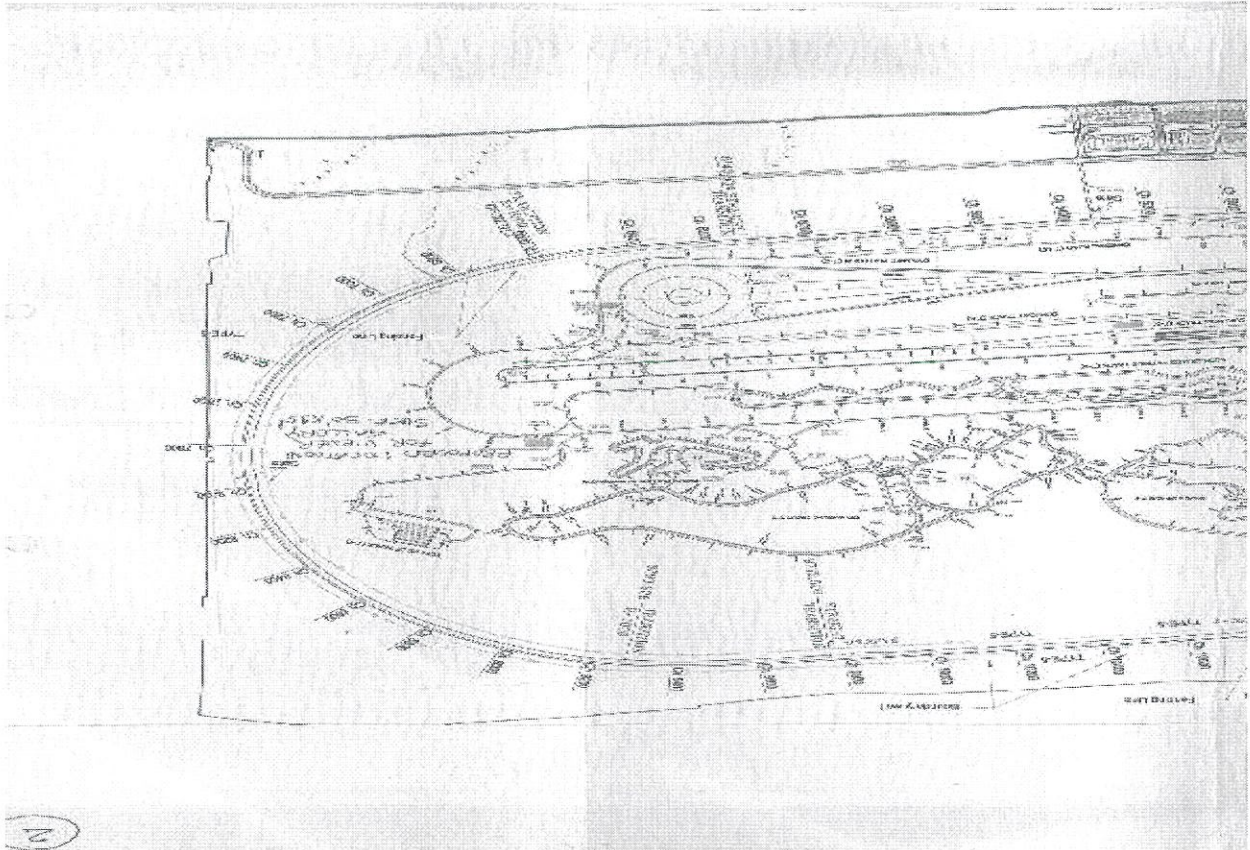
Technical Specification

The work should be executed as per works manual of MPSOR 2022 /MPSOR (B&R) standards for civil works and MPSOR (E&M) 2022 should be followed for utility works including as per prevailing standards, Drawings etc,. All the works to be executed as per directions of EIC.

Elevation drawing:



LOCATION PLAN:





Tender No. -NATRAX/PROC/C&I/22/40

Form for the submission of Financial Bid

Financial Proposal Submission Form

(To be executed on Letterhead of the Bidder)

[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]: _____





Tender No. -NATRAX/PROC/C&I/22/40

Authorized Signature [*In initials*]: _____

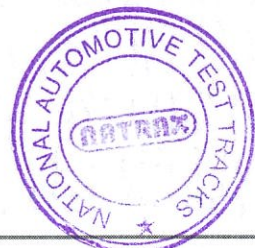
Name and Title of Signatory: _____

Name of Firm: _____

Address: _____

[Note : To be signed in blue ink]

[Handwritten signature]



Bill of Quantities (BOQ)/Financial Bid

BILL OF QUANTITY FOR CONSTRUCTION OF SHED(VIEWER GALLERY) NEAR CRASH BARRIER TESTING FACILITY AT NATRAX PITHAMPUR (M.P.)							
S. no	Ref. MPSO R - 2022	Description of Item	Unit	Quantity	Rates		Amount
					In Figure (In Rs.)	In Words (In Rs.)	
1	2.3	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared.	100Sqm	2			
2	2.6	Earth work in excavation (Removable of BC soil) by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed.	Cum	75			
3	2.7.1.1	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. Ordinary rock	Cum	16			
4	2.26	Supplying and filling in plinth with crusher stone dust / coarse sand under floors including, watering, ramming and compacting in layers not exceeding 20cm in depth and dressing complete Note: - Maximum thickness of this layer shall be 20 cm.	Cum	8			
5		Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level :					
	4.1.3	1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size). M15 Grade	cum	9			



6		Providing and laying in position cement concrete for reinforced cement concrete work, using cement sand, & aggregate in ratio of 1:11/2:3 , including laying but excluding the cost of cantering, shuttering, finishing and reinforcement, as per direction of Engineer-in-charge. M-25 Grade					
6.1	5.30.1	All works upto plinth level	cum	7			
6.2	5.30.2	All work above the plinth level	cum	5			
7		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.					
	5.16.6	Thermo-Mechanically Treated bars	Kg	1500			
8		Brick work using Fly ash brick with F.P.S bricks of class designation 75 in foundation & plinth work in all shapes and size in					
	6.6.1	(Cement mortar 1:4)	cum	10			
9	6.7.1.1	Brick work using Fly ash brick with F.P.S bricks of class designation 75 in superstructure above plinth level up to floor V level in all shapes and size in (1:4)	Cum	6			
10	11.53	Providing and laying anti-skid vitrified Glazed Ceramic floor tiles 600x600 mm or more (having thickness 9 to 10mm) of 1st quality conforming to IS : 15622 of approved make in all colours white, ivory, grey, fume red brown laid on 20mm thick cement mortar 1:4 (1 Cement : 4 sand) including grouting the joints with white cement and matching pigments etc., complete	sqm	70			
11	11.22.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size, approved shade, colour	sqm	13			



		and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish & chasing in to the tiles wall etc. complete at all levels. Granite of any colour and shade					
12	11.23	Extra for prefinished nosing to treads of steps of marble stone.	Meter	60			
13	10.23.1	Steel work in built up M.S. tubular section (round, square or rectangular hollow tubes etc.) trusses/frame work etc. including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete	Kg	2724			
14	11.66	Providing and laying 60 mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the..... direction of Engineer-in-charge	sqm	9			
15	13.53	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :.1 New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20kg/ 10 sqm)	sqm	89			



16	11.73	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-Charge).	rmt	2			
17	MPSO R road &Brid ge 3.19	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes collar jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand).					
17.1		Size 300 mm dia meter	rmt	7			
18	MPSO R 2022 : 13.65	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	sqm	5			
19		Centering and shuttering including strutting propping etc and removal of form for					
19.1	MPSO R 2022 : 4.3.1	Upto plinth: Foundations, footings, bases for columns, plinth beams, curtain walls, columns below plinth.	Sqm	96			
19.2	MPSO R 2022 : 4.3.2	above plinth: Retaining walls, return walls, walls (any thickness) including attached pilasters, buttresses, and string courses fillets etc.	Sqm	14			
20	MPSO R 2022 : 13.2.1	15 mm cement plaster on the rough side of single or half brick wall of mix					
		1:6 (1 cement : 6 sand)	sqm	111			

[Handwritten Signature]



21	MPSO R 2022 : 12.15	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self-drilling /self-tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required	sqm	150			
22	MPSO R 2022 : 10.1	Structural steel work using M.S. flats, angles, channels I-section, H-section etc. riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	Kg	128			
23		Filling in plinth with local earth / moorum available insite barrow area with in anywhere in the campus (free from clay) in layer not exceeding 20 cm in depth, breaking clods watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers and rolling every 3rd and top most layer with power of minimum 8 tonnes and dressing up in embankment for road ,flood banks marginal and guide banks etc. lead upto 50m and lift up to 1.5 m	Cum	76			



24		Providing and fixing Aluminium composite panel to clad the External surface like column, wall, jambs, sills, projected area, ceiling or any surface to any profile and shape, horizontally, vertically, sloped, curved, circular etc complete shown in the Drawing with necessary Hot dip Galvanised Structural steel support to clad the ACP and all support to be designed to withstand the Design wind pressure and the specification specified including Base support above etc complete.as per the directions of EIC.	sqm	117			
25		Painting : Painting of structural steel with preparing surface by wire brushing scraping chipping and rubbing etc complete Paint of approved manufacture brand colour and shade to be used as per specifications at all elevation and as directed including supply of paint cleaning and preparing the surface scaffolding etc complete All primary and secondary member shall be supplied with factory applied one coat of zinc chromate red oxide primer finished with 2 coats of synthetic enamel paint applied at site	kg	2852			
	Elect MPSO R (E&M)	Electrical work					
26		Point wiring (excluding metallic switch box & sheet but including switches, sockets, lamp holders/ceiling roses etc) with 1.5sq. mm. PVC insulated cable FRLS with copper multi strand conductor ISI marked in concealed rigid steel conduit ISI marked of suitable size and 1.5sq. mm. PVC insulated FRLS copper earth continuity conductor of green colour inside conduit including painting, screwless connector for joints etc. as required as per specification for Point wiring concealed rigid Steel conduit Using					



		modular accessories					
26.1	2.1.1.2	Primary point as above. Using modular accessories	No	4			
26.2	2.1.2.2	Same as item no. 1) above but Secondary point (Controlling switch and GI box included in item no. 1) Secondary medium point	No	6			
27		Wiring for 250 volts single phase and neutral 6/16 amps modular switch socket outlet with universal pins with 3x4 sq.mm PVC insulated copper conductor 1100 volts grade stranded flexible "FRLS" wire in concealed or surface mounted 25 mm dia 16 gauge MS conduit / existing raceway including providing and fixing of 6/16 amps 3 pin modular switched sockets of approved make and design in 1.6 mm thick GI box with grid plates and earthing the third pin of each socket outlet with 4 Sq mm PVC insulated copper conductor stranded flexible "FRLS" wire (2 nos. socket outlet shall be looped on one circuit).					
27.1	2.1.3.2	3 Pin 6 Amp socket outlet on separate board	No	4			
28		Supplying & fixing of approved make Industrial type metal plug & socket DBs (without MCB) SPN sheet enclosure (dust protected) inclusive of 2 pole and earth metal plug and socket and space to incorporate SP MCB complete as per specification as required					
28.1	27.18.1	10 Amps (DPN)	No	1			
28.2	27.18.2	20 Amp (TPN)	No	1			
29		Supply, installation, testing and commissioning of the following lighting fixtures and fans with all fixing accessories etc. as required.					
29.1	31.19.2	Supplying, fixing and testing of approved make LED bulkhead ABS body, PC diffuser including fixing on wall as required, with necessary material complete 10W IP 55	No	5			





Tender No. -NATRAX/PROC/C&I/22/40

30	41.21	Laying of one number armoured / unarmoured power cable 1:1 KV grade of size not exceeding 25 sq. mm in the existing RCC hume/stone ware/G.I. pipe/surface in existing trench as required.	Mtr	1200			
31	37.3	Earthing with G.I. earth plate 600mm X 600mm X 6mm thick including accessories and providing masonry encloser in cement mortar, cover plate having locking arrangement on the top and G.I. watering pipe 20mm dia 2.7 metre long etc. (but without charcoal or coke and salt) complete as required	Nos	1			
		Total Amount					

(Rupees...

Note: above quoted amount should be inclusive of all taxes and duties, delivery charges up to site etc.

Signature of bidder

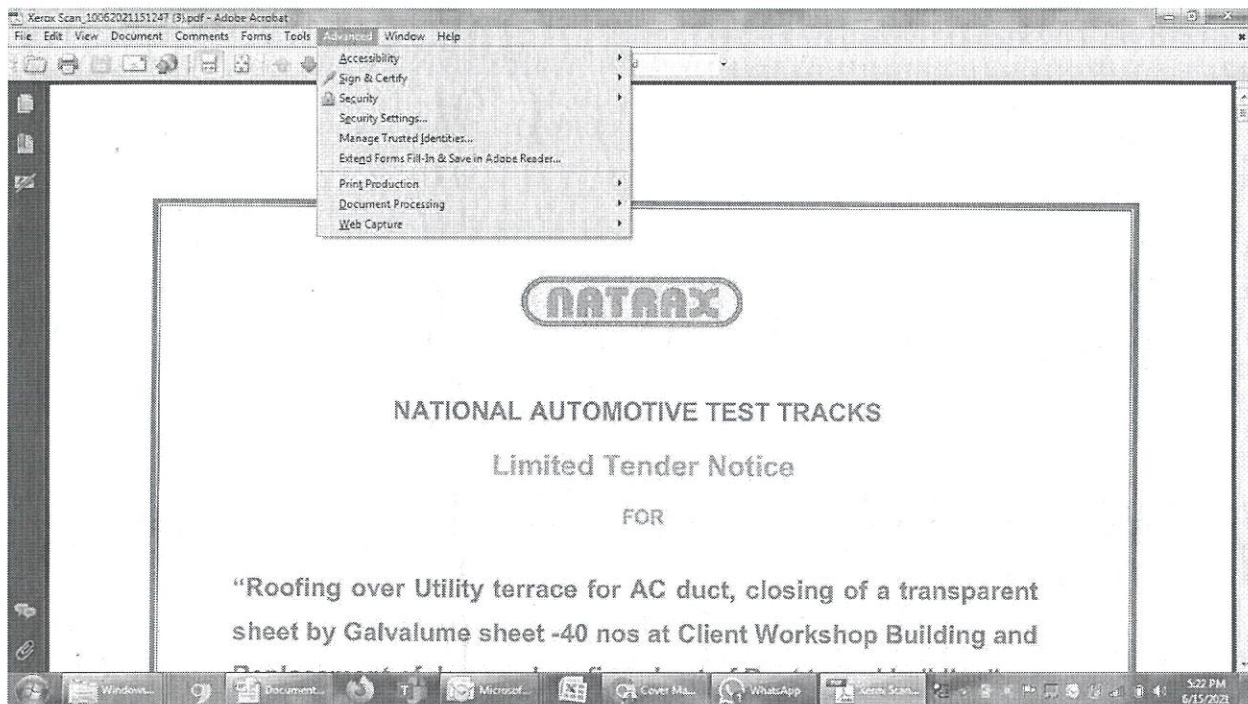




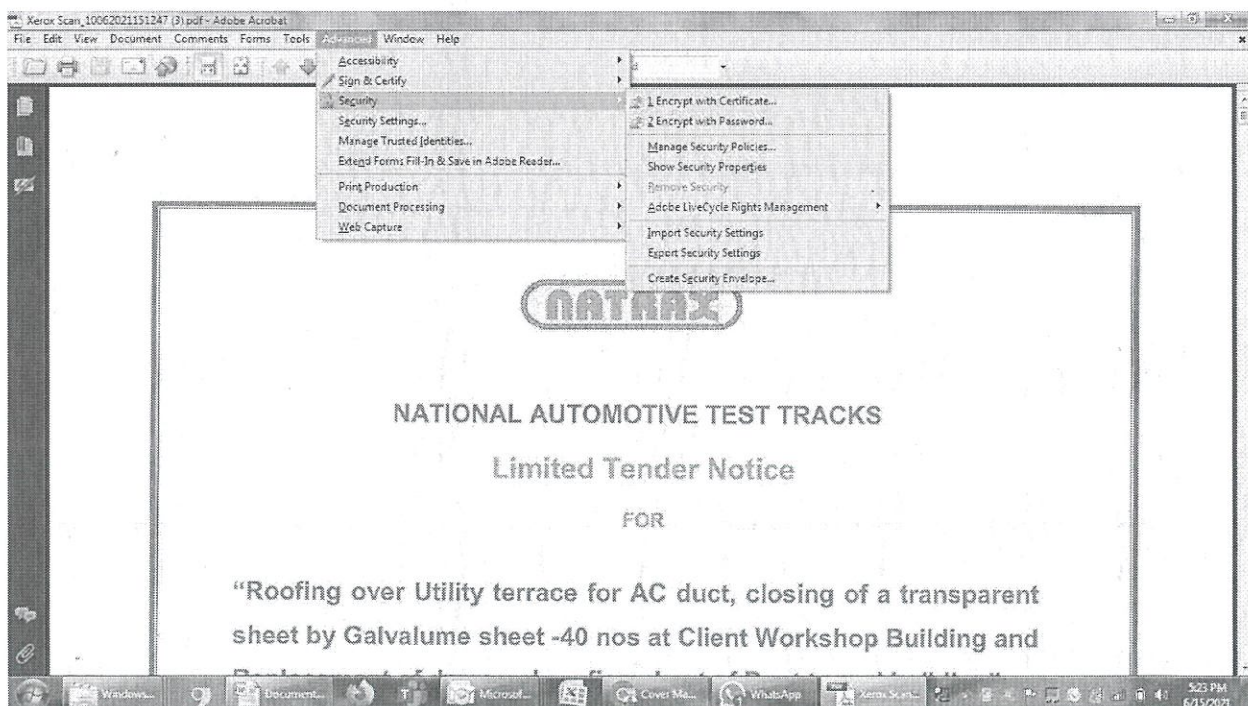
Tender No. -NATRAX/PROC/C&I/22/40

Steps for loading passwords in PDF Files-Method I

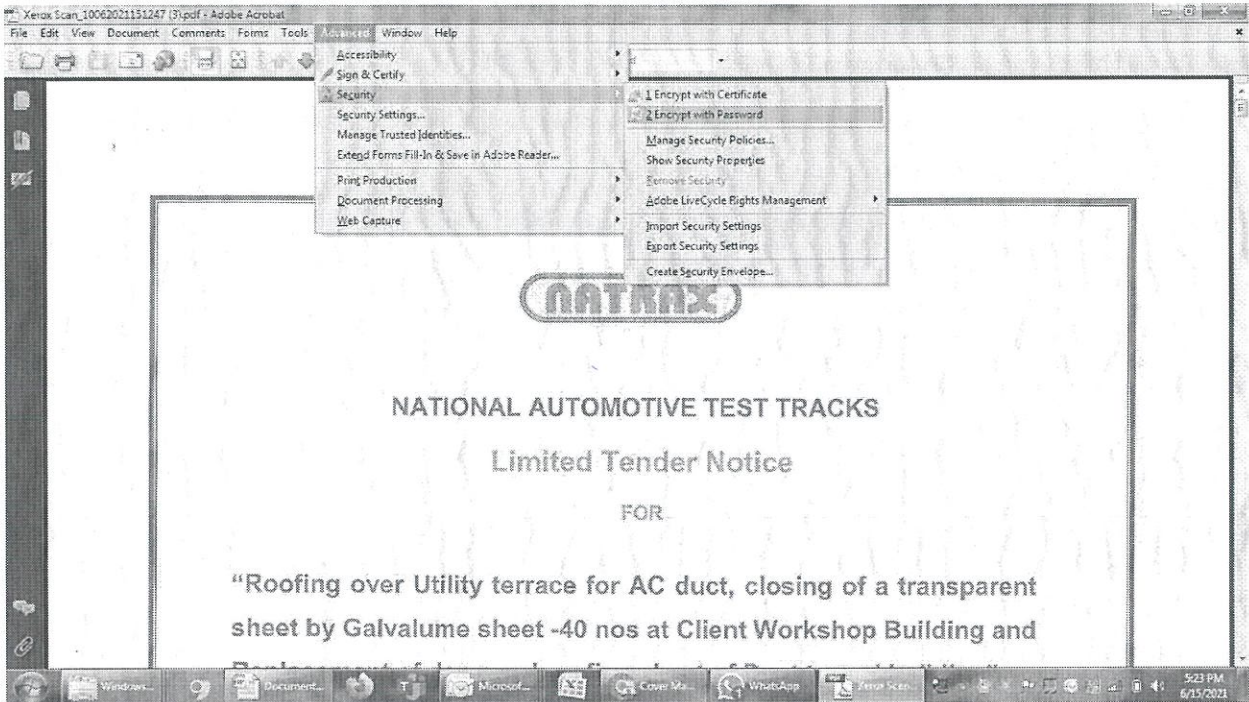
Step 1- please open PDF file and click on "Advance" tab.



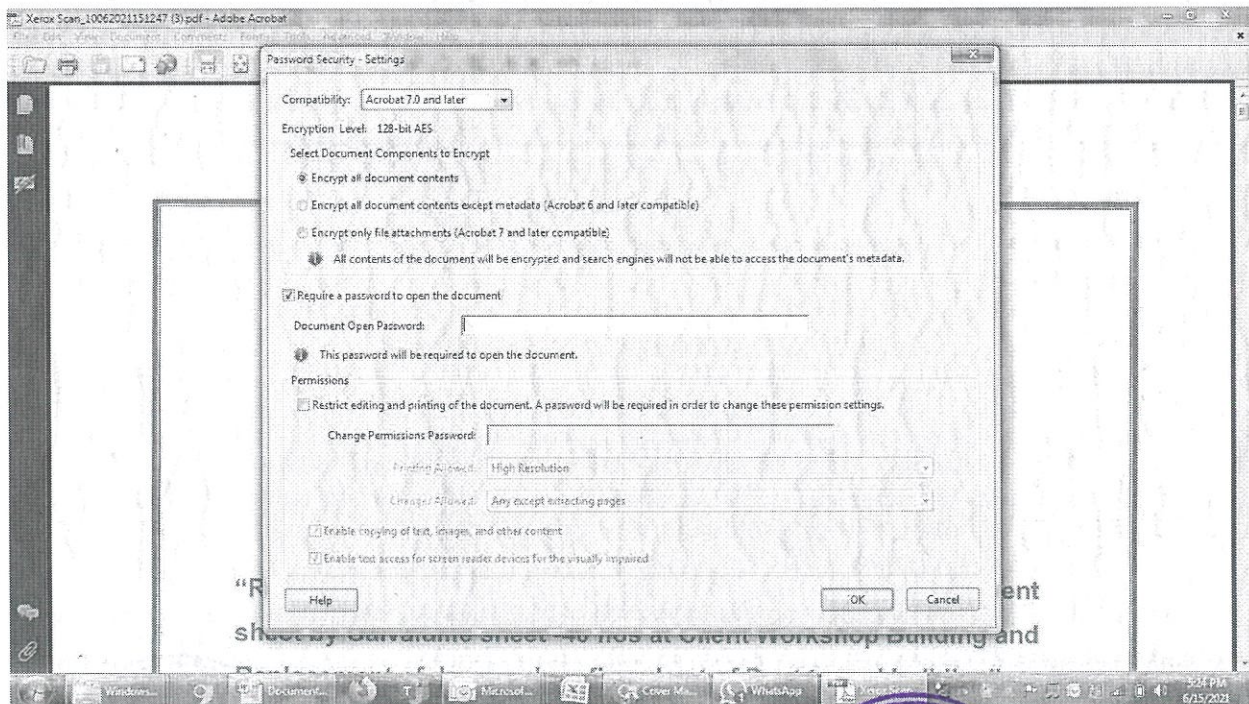
Step 2- in advance tab, please click on "Security" tab.



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".

