

Government of West Bengal Office of the Additional Director General & Inspector General of Police Traffic & Road Safety, West Bengal Araksha Bhavan, Block-DJ, Sector-II, Salt Lake City, Kolkata – 700091

e-mail: modernisation.traffichq@gmail.com

Notice Inviting e-Tender No. WBTHQ/ADG/eNIT-04/MOD/2023-2024 Date: 03/07/2023

The Additional Director General Traffic & Road Safety, West Bengal invites e-Tenders on behalf of Governor, West Bengal from the bonafide manufacturers/dealers or distributers/traders & Industrial undertaking organization etc. who has tender specific authorization for the item in the table below.

Sl. No.	Name of Item	Quantity approx.	₹/Unit (including GST)	Total amount of Tender value (including GST)		
1.	Spring Post	50,000 Pieces	527.00 (including installation)	2,63,50,000/-		
2.	Speed Bump	1,25,000 Pieces	230.00 (including installation)	2,87,50,000/-		
3.	Traffic LED Batten Light (Hand held signal light)	4,000 Pieces.	748.00	29,92,000/-		
4.	Raised Pavement Marker (RPM)	18,800 Pieces.	91.00 (including installation)	17,10,800/-		
5.	Reflective Tape	12,000 Mtrs.	99.00 (per Mtrs.)	11,88,000/-		
6.	Luminous Jacket	20,000 Pieces	191.00	38,20,000/-		

The detailed specification of the items is mentioned in Annexure-II

2. Eligibility of Bidders: -

Only Manufacturers/ Direct Importers/Dealers having the Tender specific authorization from OEM are eligible for participation in the Tender.

2.1 The process of deposit of 2% Earnest Money through offline instruments like Bank Draft, Pay Order etc. has been stopped for e-tender procurement of this unit. Necessary Earnest Money ₹12,96,216/-will be deposited by the bidder electronically: online-through his net banking enabled bank account maintained at any bank or offline-through any bank of generating NEFT / RTGS challan from the e-tendering portal. Intending bidder will get the beneficiary details from e-tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective bank as per the beneficiary Name and Account No, Amount, Beneficiary Bank name (ICICI Bank) & IFSC Code and e-Procurement reference no.

Firm registered as a Small Scale Industry/MSME/NISC/C&SSI Department, West Bengal may, however, be exempted from depositing Earnest Money on production of satisfactory documents in support of this purpose.

Intending bidder who wants to transfer EMD through NEFT / RTGS must read the instruction of the challan generated from E-Procurement site. Bidders are also advised to submit EMD of their bid at least 3 working days before the bid submission closing date as it requires time for processing of payment of EMD.

Bidder eligible for exemption of EMD as per Govt. rule may avail the same and necessary documents regarding the exemption of EMD must be uploaded in the EMD folder of Statuary Bid documents.

- 2.2. In the event of e-filling, tending bidder may downloads the tender documents from the website www.wbtenders.gov.in in directly with help of Digital Signature Certificate. Technical Bid and Financial Bid both will be submitted concurrently duly digitally signed in the www.wbtenders.gov.in. Tender document may be downloaded from website and submission of Technical Bid and Financial Bid as per tender time schedule stated in clause
- 2. 3. (a) The Instant e-Tender accepted rate of the tendered items will remain valid for 01 (one) year from the date of issuance of Lol/LoA. Whoever, the bidder/OEM should have agreed to supply the commodity in the same L1 Price for another 6 (six) months from the day of expiry of tender if require.
 - (b) Conditional/incomplete bid & joint ventures will not be considered.
 - (c) Tenderers should specify the address within the City of Kolkata and Phone/Mobile, Fax No./e-mail I.D. for the purpose of quick communication in the event of urgency.
 - (d) Deviation Statement (if any) may also be enclosed.
 - (e) There should be an onsite manufacturing guarantee/warranty as per OEM for the item with a Mention of specific period.
 - (f) West Bengal Police Department reserves the right to inspect the premises of the manufacturer and See the process of manufacturing of the products mentioned in the tender.
 - (g) Manufacturer warranty should be assured for wear & tear, UV stabilization, Flexibility etc. It should be properly specified. What is the minimum warranty period?
 - (h) The weight of the unit and the material to be used for manufacturing of all the products should be clearly specified, before quoting the minimum rates for the items.
 - (i) Bidders should submit their work experience certificates specially related with Road Safety related work.
 - (j) The West Bengal Police Department is free to get the sample tested from any reputed Government Testing Laboratory for material used in manufacturing as per specification mentioned in the tender.
 - (k) Bidders should submit 1-year warranty certificate.
 - All Vendors / Suppliers / Manufacturers may start taking steps to ensure:
- 2.4. That they have a Trade License of West Bengal.
- 2.5. That they have a Service Centre (for technical equipment) in West Bengal (preferably around in or around Kolkata). Vendors / Suppliers should have the authorization of the OEMs /or then authorised dealer / agents for repair and maintenance of the equipment supplied.
- 2.6. Where ever the supplier / fabricator, manufactures the equipment, the specifications of the material used in fabrication needs to be verified. The same can be done by
 - Submitting a test certificate of the particular product (Sample submitted) from a Government Test Laboratory / Agency.
 - Submitting the purchase document of the raw-material along with the test certificate of the raw material manufacturer.
 - Destructive test (at the cost of the supplier) of 1 / 2 units randomly selected from the supplied material.

- 2.7. Where ever the supplier / fabricator, manufactures the equipment, a team from THQ would undertake spot visits to the fabrication site for verification.
- 2.8. All equipment should have an all-weather proof sticker stating the manufacturer's name / batch number, serial number and date of manufacture. The same should be affixed at an appropriate location (not very visible but easily accessible for inspection). If there is any issue with the placement or size or site of placement the same would be finalised in the pre-bid meeting.
- 2.9. Wherever Retro Reflective Sheeting as per ASTM D 4956 are used, the same have to be tested for reflectivity (RA Values) as per IRC 67 2012 At the time of installation / supply and then every two years, within the warranty period. The equipment to be used will be the OEMs scopes.
- 3.0. Orders for the supply of the approved products will be placed with the successful tenderers after the execution of the agreements, and such supply shall have to be made in such instalments as may be fixed or spread over the period to be specified in the Annexure-II and supply orders to be made in pursuance of the agreements. The successful tenderer will have to supply within the specified time schedule that had been assured at the time of selection as supplier. Bidders should adhere to the specification the article mentioned in the e-Tender. Any kind of deviation/short-comings if noticed during the supply shall be strictly dealt with.
- 3.1. The selected contractors shall have to deposit 5% security deposit of the total contract value of the items in favour of the Additional Director General & Inspector General of Police, Traffic & Road Safety, West Bengal in GP Notes/ Bank Guarantee Bond/F.D.R. of any nationalized bank and to execute an agreement of contract within 3 (three) days from the date of issue of the work order failing which the letter of acceptance, so issued, may be treated as cancelled as well as the earnest money so deposited may be forfeited and the firm may be blacklisted. No interest would be paid on the performance Security Deposit. Payment will be made as and when fund will be available from the concerned source subject to complete supply of articles.
- 3.2. It should be noted that the firm/firms will be selected purely on a "PROVISIONAL BASIS" and the forecast requirement may increase or decrease by any quantity during the period of validity of the tender.
- 3.3. The bidder should not have been blacklisted by any Central / State Government / Public Sector Undertaking for the tendered item and / or any other item. An undertaking in this regard should be submitted by the bidder otherwise the bid shall be summarily rejected.
 If the selected firm is found / detected Blacklisted by any Central / State Government / Public Sector Undertaking (for the tendered item or any other item) at any stage of procurement process, the acceptance of the selected firm and / or the supply order etc, if issued would be treated as cancelled and the contract in whole will be terminated with immediate effect without any intimation to the concerned firm.
- 3.4. Additional Director General & Inspector General of Police, Traffic & Road Safety, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to, divide the contract amongst any number of tenderers, if required so. Additional Director General & Inspector General of Police, Traffic & Road Safety, West Bengal does not bind himself to accept the lowest rate.
- 3.5. Selected contractors will have to supply articles according to the indents placed with them from time to time within the specified period as per approved sample and/or the product demonstrated for inspection and evaluation, failing which the firm may be blacklisted with the forfeiture of security deposit. In the event of the non-supply of articles or if articles supplied by the selected contractors) is found to be sub-

standard, the Additional Director General & Inspector General of Police, Traffic & Road Safety, West Bengal may, without notice to the contractors) purchase from elsewhere the articles required. Any loss incurred by reason of the price paid for such article(s) or any other loss or expense incurred by reason of such default on the part of the contractors) may be deducted from the bills or any money payable to the contractors) or from the security deposit of the concerned contractor(s). If the performance of the supplied items/equipment are found unsatisfactory or not as to our desired level even after payment, the supplier has to refund the entire amount paid to him earlier for that particular item/equipment.

3.6 **Important Dates:**

SI. No.	Particulars	Date	Time	
1.	Date of hosting of documents at Departmental Website "policewb.gov.in"/ "www.wbtenders.gov.in"	Next working day from the day of paper publication		
2.	Documents Download/sell start date (Online)	From the day of NIT publication		
3.	Documents Download/Sell End date (Online)	21st day form the publication of NIT		
4.	Pre-Bid Meeting Date.	20-07-2023	03:00 PM	
5.	Bid submission start date (Online)	From the day of NIT publication		
6.	Bid submission closing date (Online)	28-07-2023	05.00 PM	
7.	Technical Bid opening (Bid A)	31-07-2023	01.00 PM	
8.	Technical Demonstration Date & Time	02-08-2023	12.00 PM	
9.	Type of Bid	Two bid system (Tech & Fin)		
10.	Bid validity offer	Bid will remain valid for a period of 1 (one year from the issuance Letter of Acceptance (LoA). May be extended for another 06 months' subject to approval of concerned authority and bidder/ bidders, it required. Office of the Additional Director General of Police (Traffic & Road Safety), Araksha Bhawan, 1st Floor, Sector-II, Block-DJ, Salt Lake City, Kol-700 091. e-mail: modernisation.traffichq@gmail.com		
11.	Tender opening Place			

4. General guidance for e-Tendering:

4.1. Registration of the Contractor:

Any contractors willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System, through logging on to https://wbtenders.gov.in (the Web Portal of Public Works Department) the contractor is to click on the link for e-Tendering site as given on the web portal.

I Digital Signature Certificate (DSC):

Each Contractor is required to obtain a Class-II OR Class-III Digital Signature Certificate (DSC) for submission of tenders for the approval service of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the website stated in Clause-I above DSC is given as a USB e-Token.

The contractor can search & download N.I.T. & Tender Document(s) electronically from computer once he logs on to the website mentioned in Clause-I using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

4.2. Submission of Tenders:

Tenders are to be submitted through online to the website stated in Clause-I in two folders at a time for each work, one in Technical Bid & the other is Financial Bid before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digital Signed. The documents will get encrypted (transformed into non readable formats).

4.3. Penalty Clauses:

PENALTY FOR FORMATION OF CARTEL OR FURNISHING OF FRAUDULENT / MISLEADING DOCUMENTS: If during the tender process or at any state during the validity of the tender period, it is found that a Tenderer(s) has formed a cartel in what so ever from or name to fix up the rates or suppliers to the detriment of the fairness of the tender process, penal measures shall be initiated. Similar penal measures shall also be initiated against those tenders who have submitted false / misleading / fraudulent documents or made incorrect declarations. The penal measure will be forfeiture of Earnest Money. Forfeiture of Performance Bank Guarantee if enlisted as a supplier.

4.4 Technical Proposal:

The Technical proposal should contain scanned copies of the following in two covers (folders).

(a) Statutory Cover containing the following documents:

- (1) NIT
- (2) EMD
- (3) CREDENTIAL DOCUMENTS, VIZ., TRADE LICENSE, INCOME TAX/PAN, GST, LETTER OF AUTHORIZATION/DPL/OEM
- (4) AGREEMENT PAPER
- (5) TECHNICAL SPECIFICATION.

(b) Non-statutory Cover containing the following documents:

THE ABOVE STATED NON-STATUTORY/TECHNICAL DOCUMENTS SHOULD BE ARRANGED IN THE FOLLOWING MANNER

Click the check boxes beside the necessary documents in the My Document list and then click the tab "Submit Non-Statutory Documents" to send the selected documents to Non-Statutory folder.

Next Click the tab "Click to Encrypt and upload" and then click the "Technical" Folder to upload the Technical Documents.

SI. No.	Category Name	Sub-Category Description	Detail(s)
Α	Certificate(s)	Certificate(s)	GST Registration Certificate. PAN. Latest P Tax (Challan). Latest IT Receipt. Latest IT-Saral. Tender specific Authorization is desired for this Tender.
В	Company Detail(s)	Company Detail	Proprietorship Firm (Trade License) Partnership Firm (Partnership Deed, Trade License) Ltd. Company (Incorporation Certificate, Trade License) Society (Society Registration Copy, Trade License) Power of Attorney.
С	Credential	Credential - 1	Work Order on Road Safety equipment & Completion Certificate.
D	Balance Sheet	Balance Sheet 2020-2021 Balance Sheet 2021-2022 Balance Sheet 2022-2023	Details

NOTE: BLACK & WHITE SCAN, MULTIPAGE SCAN, DPI MAX 200-300

4.5. FINANCIAL PROPOSAL:

- (a) The contractor is to quote the rate online through computer in the space marked for quoting rate in the BOQ. Total Tax and duties shall have to be mentioned separately in the columns provided for the purpose.
- (b) If any contractor is exempted from payment of EMD, copy of relevant Government Order needs to be furnished.
- (c) The financial proposal should contain the following documents in one cover (folder) i.e., Bill of Quantities (BOQ).
- (d) Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor. If any tenderer fails to produce the original hard copies of the documents like Completion Certificates and any other documents on demand of the Tender Evaluation Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies, it may be treated as submission of false documents by the tenderer and action may be referred to the appropriate authority for prosecution as per relevant IT Act.

5. Opening & Evaluation of Tender:

- a. Opening of Technical Proposal: A Committee formed by Additional Director General, Traffic & Road Safety, West Bengal will open the Technical bid of the Tender.
- b. Opening of Technical Bid: Araksha Bhavan, Block: DJ, Sector: -II, Salt Lake City, Kolkata: -700091 at the time mentioned above i.e. 31-07-2023 at 01:00 PM The Bidders will not be considered for financial bid if the samples there are not approved by the committee appointed by Additional Director General, Traffic & Road Safety, West Bengal.
- c. Cover (folder) for Statutory Documents will be opened first and if found in order, cover (folder) for Non-Statutory Documents will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.
- d. Decrypted (transformed into readable formats) documents of the non- statutory cover will be downloaded & handed over to the Tender Evaluation Committee.
- e. Summary list of technically qualified tenderers will be uploaded online.
- f. Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.
- g. During evaluation the committee may summon of the tenderers & seek clarification / information or additional documents or original hard copy of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.
- h. All Bidders are requested to be present in the office of the Additional Director General, Traffic & Road Safety, West Bengal at the time of opening the financial bid. Any objection in respect of alternation of bid will not be entertained raised by any bidder who will present or absent during opening of bid. No informal bidder will be entertained in the bid further.

6. REJECTION OF BID:

The Additional Director General, Traffic & Road Safety, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason further he may not place any orders even after selection and he will not be liable for any cost that might have incurred by any bidder at the stage of bidding. He reserves the right to divide the contract amongst any number of Tenderers if required so he reserves right to place order for quantity mentioned in excess or less than, which is mention in table of Para – I depending on the availability of fund. Additional Director General, Traffic & Road Safety, West Bengal does not bind himself to accept the lowest rate.

- a. Canvassing on the part of tenderers will render his tender to cancellation summarily.
- **b.** For any clarification regarding the tenderer are requested to visit Shri Jayanta Chakraborty, Inspector (Modernization), Traffic Hqrs., Araksha Bhavan, Block-DJ, Sector-II, Salt Lake City, Kolkata:-700091.

NB: Any inconsistencies in the descriptions may be expeditiously brought to the notice of the tendering authority.

7. AWARD OF CONTRACT:

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter / Letter of Acceptance both online & offline to save time.

The notification of award will constitute the formation of the Contract.

The Agreement in prescribed format in admissible stamp duties will incorporate all agreements between the Tender Accepting Authority and the successful bidder/bidders. The time frame for attending the fault and restoration of equipment within the warranty period and penalty clause for the defaulters will be included in the agreement. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents. After receipt of Letter of Acceptance, the successful bidder shall have to submit requisite copies of contract documents downloading from the website stated in the N.I.T. along with requisite cost through Demand Draft issued from any nationalized bank in favor of Additional Director General, Traffic & Road Safety, West Bengal for the concerned work within time limit to be set in the letter of acceptance.

8. VALIDITY PERIOD:

Bid will remain valid for a period of 1 (one) year from the issuance Letter of Acceptance (LoA). May be extended for another 06 months' subject to approval of concerned authority and bidder/bidders, if required.

Additional Director General & Inspector General of Police Traffic & Road Safety, West Bengal

ANNEXURE-I

APPLICATION FORMAT

(To be furnished in the Company's official letter pad with full Address and Contact No., etc.)

To Additional Director General Traffic & Road Safety, West Bengal Araksha Bhavan Block: -DJ, Sector-II, Salt Lake City, Kolkata: - 700091.

> Sub: NIT for Traffic Equipment at Office of the Additional Director General, Traffic & Road Safety, West Bengal, Araksha Bhavan, Block: -DJ, Sector-II, Salt Lake City, Kolkata: -700091.

Ref:-

Sir,

Having examined the pre-qualification & other documents published in the N.I.T, I /we hereby submit all the necessary information and relevant documents for evaluation:

- 2. We accept the terms and conditions as laid down in the NIT mentioned above and declare that we shall abide by it for throughout the tender period.
- 3. We are offering rate for the following item /items and assured supply to the Traffic Headquarters, West Bengal Government of West Bengal as mentioned in Page-1.

OR

- 5. In the event of being selected, supply will be made within the stipulated period excepting the condition which is beyond our control.
- 6. We understand that:
- (a) Tender Selection Committee can amend the scope & value of the contract bid under this project.
- (b) Tender Selection Committee reserves the right to reject any application without assigning any reason.

Date: -

Signature of applicant including title and capacity in which application is made.

Telephone No.:

Mobile No.:

E-Mail address:

CHECK LIST

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	Items		No	No.□
1.	Tender Specific authorization Certificate of OEM.			
2.	The Manufacturer / OEM warranty should be assured for wear & tear, UV stabilization, etc. should be properly specified as per tender mention period.			
3.	In case of Tender being a manufacturing company, they have to enclose original manufacturer certificate as proof of bring manufacturer. In case tenderer is a dealer / distributor they have to enclose their principal manufacturers certificate and details about their manufacturer capabilities.			
4.	Application submitted in Annexure I			
5.	Copy of relevant G.O. exempted form payment of EMD			
6.	Last 3 years Balance Sheet i.e. for 2020-2021, 2021-2022 & 2022-2023.			
7.	Trade License, Copy of PAN Card,			
8.	Income Tax, GST Registration Certificate, Latest P Tax Challan, Latest ITR,			
9.	Affidavit of non- conviction affirmed before a Notary public/ First Class Judicial Magistrate/Executive Magistrate (affidavit sworn after 01.01.2020)			

Annexure-II

Generic specification of Spring Post

- The Spring Post should be made of Polyurethane and High Impact Resistance against crashes
 and shocks. It should however be extremely flexible, strong and soft so as to withstand vehicle
 impact but not damage the vehicle on collision and should be restored to its original shape post
 impact.
- The post should be a single piece with three sets of bolts at the base.
- Body Colour UV stabilized for Non-Fading Orange Colour.

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- The base of the Spring Post is most vulnerable to wear and tear and hence the post should have a slightly larger separate base plate which would be fixed on the road and the Spring Post mounted on it.
- The Spring Post should have three retro-reflective sleeves/bands on top.
- Dimensions- Pole Height of Spring Post~ max. upto 800 mm, Pole Diameter~ max. 80 mm, Base Diameter ~ max. 200 mm. Separate base plate made of Polyurethane, 100 mm thick high. larger than the Base diameter, so that it can be fixed to the ground and over which the spring post would be mounted.
- The width of the retro-reflective bands (made of Retro Reflective type-I as per ASTMD4956) ~
 78 mm.
- Sample photograph of the Spring Post is as printed below. (The photograph is indicative and slight modifications are acceptable), (Base plate not shown).



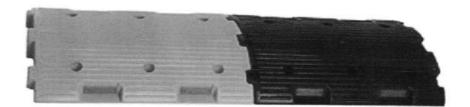


Generic specification of Speed Bump

- Plastic Speed Bump made of PE/ABS (Hi-Class) material.
- Two highly reflective reflectors moulded in PMMA material are welded with PE base plate through ultrasonic welding process and then fixed on to the Speed Bump so that dust and water cannot touch reflector's inside are and thus it maintains its reflectivity for a long time.
- In alternate yellow and black colors with red Reflective material.
- To bear load upto 50 Tones.

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- Dimensions: Length- 250 mm, Width- 350 mm, Height- 50 mm.
- It should come with requisite certification from a 3rd party testing agency.
- Installation should be only done with help of 4 nos. Galvanised Iron Bolts of 4 inches Height and 8 mm threat dia. Washers diameter threats should be of 10 mm for better grooving of the Bumps and no nails should be used for installation. Prior to installation of the products, the Speed Bumps Hollow base should be duly/properly filled with m-15 grade Cement Concrete for better longevity of the Speed Bumps, reputed make/brand epoxy should also be used during the time of installation of the Speed Bumps, to avoid rear force pressure of the vehicles, which generally create vibration during the movement of the vehicles while plying on the Speed Bumps. (The installation should be done with the help of m-15 Cement Concrete to cover the full base of the Speed Bumps, G.I Bolts, G.I Washers and reputed make/branded epoxy only).
- Sample photograph of the Speed Bump is as printed below. (The photograph is indicative and slight modifications are acceptable), (Base plate not shown).



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Generic specification of Hand held baton light

- The light baton should be polycarbonate material.
- The light baton should have an easy grip handle with a length of the order of 4 inch to 5 inch
 and a diameter of 1 inch to 1.5 inch so that the person holding it can get a good grip. The
 handle should also have a string loop to facilitated securing the same with the wrist and
 provision to hang it on the side secured to the belt.
- The LED/ Light portion of the signal light should be 8 inch to 12-inch long.
- The weight of the baton should not be more than 250 Gms.
- The illumination should be LED with fluorescent 'RED & GREEN' Colours.
- The flasher circuit with durable switch should allow three modes- 'OFF, STATIC GLOW (both colour separately) and flickering glow (both colour separately).
- The device should have a light intensity > 70000 mcd which should offer day and night visibility. Visible at night from a minimum distance of 100 mtrs. under normal conditions and 50 mtrs (in rain/fog).
- The internal circuitry should be sturdy and not generally accessible.
- The same should be chargeable with an external charger/ adopter (to be provided for each charger) and the chargeable batteries should work for 24 hrs. on a single full charge and the charging should not take more than 6 hrs.
- The light baton should be well sealed to ensure and all- weather operation.
- Sample photograph of the Hand Held Signal Light is as printed below. (The photograph is indicative and slight modifications are acceptable).



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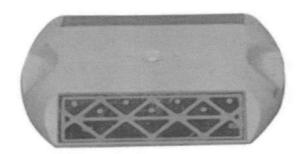
Generic Specification of RPM (Raised Pavement Marker)

- The tender is for the supply and fixing of the RPMs.
- Made of Poly Carbonate moulded body.

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- Reflective panels with electronically welded lens capable of providing total internal reflection
 of the light entering the lens face.
- Support a load of 13635 kgs. Tested in accordance to ASTM D4280 Type HS and complying to the specification of category A of MORTH Circular number RW-NH-33023/10/97/DO-III dt.11-06-1997.
- The height, width and length shall not exceed 18 mm, 100mm and 100mm and with minimum reflective area 13 sq. cm on each side and the slope to the base shall be 35+/-5°.
- Fixing will be by using epoxy resin- based adhesive as per manufacturer recommendation and complete as directed by the engineer.
- All the above should come with requisite certification from a 3rd party testing agency.
- Sample photograph of the Raised Pavement Marker (RPM) is as printed below.
 (The photograph is indicative and slight modifications are acceptable).



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Generic Specification of Reflective Tape

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The Retro Reflective Micro Prismatic Tape should be made of highly durable non-corroding lenses formed in a transparent synthetic resin and bonded to a flexible film. It should be in a Single Ply construction to ensure that there is no delamination of the top layer after the application. The tape should be metalized for making it soft and hence for easy applications on contours. The tape should not have any edge sealing. The tape will be orientation free for horizontal and vertical application.

The Retro Reflective Tape shall be made available in 100 mm (Tolerance + 10/- mm) width. Brand name/Trade name/Trade mark and 'C' making indicating the class of material shall be clearly visible and identifiable on each tape along the length of tape and shall be indelible. The Retro Reflective Micro Prismatic Marking Tape should meet the parameters laid down in AIS:090. The colour of the Reflective Tape- Red, Yellow, White.

pm

Generic Specification of Luminous Jacket

MATERIAL: Polyester and cotton mix (50:50). The tendering agency will have to certify that the same has been ensured.

Description:

1.

- Safety Sleeveless Jacket/Vests.
- · Free Size.
- Florescent Deep Orange.
- 50 mm wide white color Retro Reflective Tape Flexible Prismatic Material stitched on it.
- Super- Scribe on the Retro-Reflective Tape with suitable Paint in contrast color
 the word "West Bengal" on the Dexter side of the front and the word "Traffic" on
 the sinister side of the front vertically and the word "Police" at back side.
 On the waist Transversely. Similarly, the word "West Bengal" on the sinister side
 of the rear and the word "Traffic" on the Dexter side of the rear, vertically and the
 word "Police" at the waist Transversely.
- Luminous Jacket Cloth GSM > 120 GSM.

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