

காவல்துறை

அனுப்புநர்

பெறுநர்

காவல் ஆணையாளர்,
சேலம் மாநகரம்,
சேலம்.

இயக்குநர்,
செய்தி மக்கள் தொடர்புத்துறை,
நாமக்கல் கவிஞர் மாளிகை,
தலைமை செயலகம்,
சென்னை-600 009.

ந.க.எண். ஜி5/87/E-602943/2020 நாள் 12.04.2022

ஐயா,

பொருள் காவல் - சேலம் மாநகரம் - சாலை
பாதுகாப்பு உபகரணங்கள் - கொள்முதல்
மற்றும் நிறுவுதல் - ஒப்பந்தப்புள்ளி
பட்டியல் கோருவது - தமிழ் மற்றும்
ஆங்கிலம் செய்தித்தாளில் விளம்பரம்
வெளியிடுவது சம்மந்தமாக.
பார்வை மாவட்ட ஆட்சித்தலைவர் அவர்களின்
செயல்முறை ஆணை ROC No.
12879/2020/C3 நாள் 18.03.2022.

பார்வையில் காணும் செயல்முறை ஆணையின்படி, சேலம்
மாவட்ட சாலை பாதுகாப்பு பணிக்கு 2020-2021-ம்
நிதியாண்டிற்கான சாலை பாதுகாப்பு உபகரணங்கள்
ரூ. 61,77,500/- (ரூபாய் அறுபத்தொறு லட்சத்து எழுபத்து
ஏழாயிரத்து ஐந்து நூறு பட்டும்) கொள்முதல் மற்றும் நிறுவுதற்கு
தகுதி வாய்ந்த நிறுவனங்களிடமிருந்து ஒப்பந்தப்புள்ளி
கோருவதற்காக, தமிழ்நாடு முழுவதும் ஒரு தமிழ் மற்றும் ஒரு
ஆங்கில நாளிதழ்களில், இத்துடன் இணைத்து அனுப்பும் விளம்பர
செய்தியை வெளியிட கேட்டுக்கொள்ளப்படுகிறது.

தங்கள் உண்மையுள்ள,

காவல் ஆணையாளர்,
சேலம் மாநகரம்.

ES
12/4/22



தமிழ்நாடு அரசு

சேலம் மாநகர காவல்

ந.க.எண். ஜி5/87/E-602943/2020

நாள் 12 .04.2022

ஒப்பந்தபள்ளி அறிவிப்பு

சேலம் மாநகரத்திற்கு 2020-2021-ம் நிதியாண்டிற்கான சாலை பாதுகாப்பு பணிகள் மேற்கொள்ள, தேவையான உபகரணங்கள் கொள்முதல் செய்து, நிறுவுவதற்கு தகுதி வாய்ந்த நிறுவனங்களிடமிருந்து ஒப்பந்தபள்ளி வரவேற்கப்படுகிறது. மேற்குறிப்பிட்ட பணிகள் தொடர்பான விபரங்கள் மற்றும் படிவங்கள் <http://www.tenders.tn.gov.in> என்ற வலைதள முகவரியில் பதிவேற்றம் செய்யப்பட்டுள்ளது. அதனை கட்டணமின்றி பதிவிறக்கம் செய்துகொள்ளலாம்.

காவல் ஆணையாளர்,
சேலம் மாநகரம்.

55
12/4/22



GOVERNMENT OF TAMIL NADU

SALEM CITY POLICE

C.No.G5/87/E-602943/2020

Dated: 12.04.2022

TENDER NOTICE

The tender are inviting from qualified companies to procure and install the equipment required to carry out road safety works for the Salem City for the financial year 2020-2021. The details regarding tender are available at <http://www.tenders.tn.gov.in> and the tender forms are available in this website for downloading free of cost.

A large, stylized handwritten signature in green ink, appearing to be '12/4'.

Commissioner of Police,
Salem City

12/4/22



TENDER DOCUMENT

1.	Tender Notice	:	O/o of the Commissioner of Police, Salem City
2.	Cost of the tender document	:	Download http://www.tenders.tn.gov.in Free of cost Rs.315/- (Rs.300/- + Rs.15/- GST) in person Addl.Rs.75/- for postage.
3.	Name of the Item	:	Solar Flickering Signal -2 Nos Cats eye – 100 Nos Sign Board – 2 Nos. Caution boards –2 Nos. Speed radar gun hand held With Speed laser cameras Speed radar gun triped model Solar studs (Blinkers) Reflective Jackets Reflective Gloves (Traffic) Baton Lights with Charger (Small Size) Reflective Tape 3 M (1 Roll-50 Mtrs)-Red Reflective Tape -3M (1 Roll 50 Mtrs)- White Reflective Tpe 3 M (1 Roll 50 Mtrs) – Yellow
4.	EARNESTMONEY DEPOSIT	:	Rs. 61775/- (Rupees Sixty one thousand seven hundred and seventy five only) i.e. around 1% of the total estimated value of the tender
5.	Date and Time of Pre-bid Meeting	:	29.04.2022 (Through online only)
6.	Last date and time for submission of tender	:	06.05.2022 at 05.00 PM.
7.	Date and Time of tender opening	:	07.05.2022
8.	Date of Road safety Equipments Display and demonstrate	:	- 11.05.2022
9.	Date of commercial Bid opening	:	- 11.05.2022
10.	Commissioner of Police, Salem City Ref. No.	:	C.No.G5/87/E-602943/2020
11.	Specification of the articles/ equipments if furnished herewith	:	Yes.
12.	Tender Inviting Authority	:	Commissioner of Police, Salem City

Commissioner of Police,
Salem City

12/4/22

GOVERNMENT OF TAMIL NADU
POLICE DEPARTMENT
SALEM CITY
ROAD SAFETY FUND (2020-2021)
TENDER DOCUMENT

1) Solar Flickering Signal -2 Nos , 2) Cats eye – 100 Nos, 3) Sign Board – 2 Nos. 4) Caution boards –2 Nos., 5) Speed radar gun hand held with Speed laser cameras, 6) Speed radar gun tripod model, 7) Solar studs (Blinkers) 8) Reflective Jackets, 9) Reflective Gloves (Traffic), 10) Baton Lights with Charger (Small Size) 11) Reflective Tape 3 M (1 Roll-50 Mtrs)-Red, 12) Reflective Tape -3M (1 Roll 50 Mtrs)-White, 13) Reflective Tape 3 M (1 Roll 50 Mtrs) – Yellow.

SUPPLY, INSTALLATION &
MAINTENANCE

004842

**PROCEEDINGS OF TRANSPORT COMMISSIONER/
ROAD SAFETY COMMISSIONER, CHEPAUK, CHENNAI-5.1 / MAR 2022**
PRESENT: THIRU.S.NATARAJAN, I.A.S.,

Proceedings R.No.12100/C2/2021-23

Dated:11.03.2022

Sub: Road Safety Fund - District Collector, Salem - Ratification proposal - requested permission to purchase certain other Road Safety Equipments instead of the original sanctioned - Permission granted - orders issued -regarding.

Ref : 1. G.O Ms. No.768, Home (Tr.V) Department, Dt.20/07/2000
2. G.O Ms. No.1214, Home (Tr.V) Department, Dt.09/11/2000
3. G.O.Ms.No.1660, Home (Tr.V) Department Dt.23.12.2008
4. This office proceedings no.10830/C2/2020, Dated 06.01.2021.
5. From the District Collector, Salem
Letter No. 12879/2020/C3, dated 23.11.2021.
6. Minutes of the 50th meeting of the Inter Departmental Committee on Road Safety fund held on 24.02.2022..

Order:

In the G.O 1st cited, Government have ordered for the creation of Road Safety fund from out of the receipts of spot fine and compounding fee under the Motor Vehicles Act, 1988 collected in Tami Nadu. In the reference 2nd cited, Government have issued detailed guidelines called "Tamil Nadu Road Safety Fund Rules" for the administration of the fund.

The District Collector, Salem in the letter 5th cited has stated that a sum of Rs.8,97,47,000/- has been sanctioned to the District Collector towards the purchase of various Road safety equipments in this office proceedings no.10830/C2/2020, dated 06.01.2021. A sum of Rs. 61,77,500/- has been earmarked to the Commissioner of Police, Salem City.

Now the Commissioner of Police, Salem City has stated that he has proposed to purchase certain other Road Safety Equipments instead of the original sanctioned in this office proceedings no.10830/C2/2020, Dated 06.01.2021. Based on the recommendation of the purchase committee formed by the Commissioner of Police, Salem City, the following items were proposed to purchase.

Revised Proposal for the Year 2020-2021

Engineering Works

S. No	Station Limits And Type of Road	Black spot areas and Observations	Description of Equipments	Estimated Cost
1	Salem Town PS - Corporation Road	Atkoli bridge	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos. 3. Sign Board - 2 Nos. 4. Caution boards - 2 Nos.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
2	Salem Town PS - Corporation Road	Opposite to Town Railway Station	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos. 3. Sign Board - 2 Nos. 4. Caution boards - 2 Nos.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
3	Hasthampatty PS - Corporation Road	Pitchards Road	1. Solar Flickering Signal - 2Nos 2. Cats eye - 50 Nos. 3. Sign Board - 1 No. 4. Caution boards -1 No.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
4	Hasthampatty PS -SH	Maraveneri Junction	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos 3. Sign Board - 2 Nos. 4. Caution boards -2 Nos.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
5	Hasthampatty PS - Corporation Road	Pillaiyar Nagar Junction	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos. 3. Sign Board - 2 Nos. 4. Caution boards -2 Nos.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
6	Hasthampatty PS - Corporation	Manakadu Junction	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos. 3. Sign Board - 2 Nos. 4. Caution boards -2 Nos.	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
7	Kannankurichi PS - SH	Judge Road Junction Near ITI	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos 3. Sign Board - 2 Nos. 4. Caution boards -2 No	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
8	Steel Plant PS - SH	Aavin Diary Junction	1. Solar Flickering Signal - 2Nos 2. Cats eye - 100 Nos. 3. Sign Board - 2 Nos. 4. Caution boards -2 No	2x25000=50000 100x500=50000 2x5000=10000 2x5000=10000 Total : 120000
Total				Rs. 9,60,000

Non - Engineering works

S.No	Description or Equipments	Rate/Unit In RS. (approx)	Quantity	Total Cost
1	Speed radar gun hand held With Speed laser camera	350000	3	10,50,000
2	Speed radar gun tripod model	1000000	3	30,00,000
3	Solar studs (Blinkers)	2000	300	6,00,000
4	Reflective Jackets	750	150	1,12,500
5	Reflective Gloves (Traffic)	300	120	36,000
6	Baton Lights with Charger (Small Size)	1300	125	1,62,500
7	Reflective Tape 3 M (1 Roll-50 Mtrs) - Red	5700	20	1,14,000
8	Reflective Tape 3M (1 Roll 50 Mtrs) - White	5700	10	57,000
9	Reflective Tape 3 M (1 Roll 50 Mtrs) - Yellow	5700	15	85,500
Total				52,17,500

ABSTRACT

S.No	Details of Work	Total Cost
1.	Engineering works	Rs. 9,60,000/-
2.	Non-Engineering Works	Rs. 52,17,500/-
Total		Rs. 61,77,500/-

During the 50th meeting of Inter Departmental Committee on Road Safety fund held on 24.02.2022, the committee permitted the District Collector, Salem to purchase the above mentioned Road Safety equipments at a cost of Rs. 61,77,500/- instead of the original Road Safety equipments as sanctioned in this office proceedings 4th cited.

Accordingly the District Collector, Salem is permitted to purchase the Road Safety equipments as mentioned above at a cost of Rs. 61,77,500/-/- instead of the original Road Safety equipments as sanctioned in this office proceedings 4th cited..

The receipt of this proceedings may kindly be acknowledged.

Sd/-S. Natarajan
Transport Commissioner.

To

1. District Collector, Salem
2. the Commissioner of Police, Salem City
3. District Treasury Officer, Salem

Copy to

1. The Additional Chief Secretary to Government, Home (P&E) Department, Secretariat, Chennai-9.
2. The Accounts Officer, STA, Chennai-05
3. Stock File.

//By Order//


(S. Udhaya Kumar)

Deputy Transport Commissioner-II

TENDER No. C.No. G5/87/E-602943/2020.

TAMIL NADU POLICE

FORM OF TENDER AND CONDITIONS OF CONTRACT

Tender for the supply of Articles

To

THE GOVERNOR OF TAMIL NADU

Represented by

**The Commissioner of Police,
Salem City.**

I, _____ of _____
hereby contract and agree on the acceptance of this Tender to supply to the Government of Tamil Nadu (herein after referred to as “**the Government**”) in accordance with the conditions of contract stated below, the articles specified in the schedule below of the quality of sort and at the rate of price therein specified and I hereby forward a sum of Rs. _____ (In words)

_____ deposited as Earnest Money at 1% of the total cost of the equipments' / materials' to be returned to me, if this tender is not accepted.

Should thus tender be accepted, I hereby undertake to execute within fifteen days of notice of such acceptance, a contract in accordance with the terms of the conditions of contract aforesaid together with such further usual conditions as entered into before the execution of the contract and may be agreed upon between the successful Tenderer and the authority concerned in the department.

**Signature of Tenderer/s
with Date and Seal.**

CONDITIONS OF CONTRACT

1. In the event of any breach of terms of agreement at any time on the part of the contractor, the contract shall be terminable by the Commissioner of Police, Salem City on behalf of the Governor of Tamil Nadu without compensation to the contractor. The contract may also be put to an end at any time by the Commissioner of Police, Salem City on behalf of the Governor of Tamil Nadu upon giving notice to the contractor.

2. The articles to be supplied under this contract are to be of the quality or sort above mentioned and in every respect equal and answerable to the patterns or samples submitted during evaluation and such as by the Commissioner of Police, Salem City or any other officer duly authorized by her/him shall from time to time, order.

3. The articles are to be delivered free of charge at the contractor's risk in such quantities or numbers and in such manner, as the Commissioner of Police, Salem City or anyone authorized by her/him shall from time to time, order.

4. Rejected articles and replaced articles shall be removed by and at the expense of the contractor within seven days after notice, has been given to him of the rejection. If not so removed, the Commissioner of Police, Salem City may cause the articles to be removed and charge the contractor with all expenses incurred on such removal. The replaced articles or exchanged items should be handed over with proper acknowledgement.

5. In case of failure by the contractor to complete the work within the period specified, or work not being of the stipulated quality, or delivered without a correct invoice, in triplicate, the Commissioner of Police, Salem City or any one duly authorized by her/him shall have the power to reject any such work and get the work done with others, unless the contractor shall himself forthwith do the work sufficiently and satisfactorily and any excess of cost so incurred by the Government over the contract price together with all charges and expenses attending the purchases shall be recoverable by the Government from the Contractor.

6. In case of failure to complete the work within the date specified in terms of the contractor in preference to the lowest acceptable offer in consideration of the offer of earlier delivery, the difference between the contract rate and that of the lowest acceptable offer shall be recoverable by government from the Contractor.

7. The contract or any part, share or interest in it is not to be transferred or assigned, by the contractor directly or indirectly to any person or persons whomsoever without the written consent of the Commissioner of Police, Salem City.

8. The contractor shall make his own arrangements for obtaining import licenses in respect of articles tendered for supply under this contract from the authorities concerned and in no case applications in this regard be forwarded.

9. With every delivery of articles under the contract, the contractor should send invoices or bills in triplicate, which after verification will be passed for payment.

10. The Government hereby agree that during the term fixed by this contract, and except as herein provided Government shall not purchase from any person or persons other than the contractor or from any accompany or Corporation all or any quantities of the goods or materials agreed to be supplied by the contractor.

11. Any notice to the Contractor shall be deemed to be sufficiently served if given or left in writing at his usual or last known place of abode of business.

12. Upon the completion of the warranty period the security furnished by the contractor shall be returned to him less the amount if any due from the contractor to the Government.

13. Nothing herein contained shall prevent the Commissioner of Police, Salem City at any time, requiring the contractor to supply and deliver any large number of any one or more of the said articles than the number of the same mentioned in the said schedule and in any such case and

so often as the same shall happen, the contractor shall and will supply and deliver as aforesaid such additional number or all or any of the said articles subject to the several provision herein contained as shall be required of him and nothing herein contained shall render it obligatory on the Commissioner of Police, Salem City to take from the contractor the whole or any of the said articles and the contractor shall supply and deliver under this contract only such of the such articles as shall from time to time be required by or on behalf of the Commissioner of Police, Salem City.

14. Upon the complete fulfillment of this contract by the contractor to the satisfaction of the Commissioner of Police, Salem City or any officer duly authorized by her/him the security furnished by the contractor shall be returned to him less the amount if any due from the contractor to the Government.

(Contractor's Signature)
Address by Post

(Witness to the above signature Acceptance)

The foregoing tender, in accordance with the conditions of contract there unto annexed is hereby accepted by me acting for and on behalf and by the order and direction of the Governor of Tamil Nadu.

Signature of Officer accepting the tender
Designation:
Place:

**CONDITIONS OF TENDER FOR THE SUPPLY OF ARTICLES TO THE
POLICEDEPARTMENT.**

The articles should be as per the technical specifications in every respect. Your quotation should include GST.

2. Tender must be accompanied by brochures containing details of the articles proposed to be supplied. Brochures of articles should contain details of name of the tenderer. Tenders should necessarily contain the brochures for all specified articles. Tenders not accompanied by samples will not be considered. Accepted samples will be retained and will not be paid for. Others will be returned to the tenderers.

3. The tenderers should enclose 1% of the estimated value of the project towards EMD. The EMDs may be in the form of DD (or) Bank guarantee drawn in favour of the Commissioner of Police, Salem City. If tenderers claim EMD exemption, proper (or) valid proof should be attached with the tender document. Otherwise the tender documents deemed to be invalid and it will be summarily rejected.

4. The selected tenderer should submit an income tax verification certificate in any one of the prescribed forms enclosed. This certificate once produced will be valid for all tenders made throughout the calendar year in which the certificate is issued. The acceptance of tender will not be finalized until the Income Tax verification certificate is produced but is liable for cancellation on its non-production.

4-A. The selected tenderer should submit also a GST verification certificate in the prescribed form enclosed.

5. Successful tenderers will be required to furnish a security deposit calculated at 5% on value of the supplies contracted for and to execute an agreement in the Form which can be obtained at the office of the Commissioner of Police, Salem City. The stamp duty on the agreement should be borne by them. On their executing the agreement their earnest money will be returned to them. In case of firms outside the Tamil Nadu state, the earnest money received by money order will be returned to them by cheque. Security Deposit exemption shall not be given on any circumstances.

**Signature of the Tenderer,
With date and seal**

6. Rates should be distinctly shown in tenders in words as well as in figures.

7. If the tender is accepted and the tenderer fails to execute an agreement as required, the tenderer is liable to forfeit to Government the amount of earnest money deposited by him in respect of such tender and this will be without prejudice to the other rights and remedies of the Government.

8. Tenders should be superscribed, "**Tenders for the supply of articles to Salem City Police**" sealed and addressed to the Commissioner of Police, Salem City which should reach her on or before 06.05.2022 upto 17.00hrs. Tenders received after this time and date will not be considered. The cover should also show the name and address of the tenderer.

9. The Commissioner of Police, Salem City acting on behalf of the Governor of Tamil Nadu shall have the right of rejecting any tender without assigning any reason for so doing.

10. The Commissioner of Police, Salem City shall have the right of requiring a successful tenderer to supply a greater number or quantity of the articles mentioned in the schedule than the number or quantity there in mentioned.

11. No erasures, inter-lineation or alteration will be allowed except when initialed by the tenderer.

12. The bids prepared by the bidder shall comprise the following **Three envelopes**:-

i. TECHNICAL BID

- a. Technical Bid of the Tender should be covered in a separate sealed cover superscribed "Technical Bid"
- b. Please note that prices should not be indicated in the Technical Bid.

ii. COMMERCIAL BID

- a. Commercial Bid of the Tender should be covered in a separate sealed cover superscribed "Commercial Bid"

iii. EMD COVER – DD/BG (or) Valid Proof attached.

The above three sealed envelopes should further be put in a bigger envelope duly superscribed and sealed.

**Signature of the Tenderer,
With date and seal.**

ENCLOSURE

Form of certificate of Income Tax Assessment to be produced by an Applicant for Contracts

(To be filled in by the applicant)

i)	Name and style of the Company, Firm, Hindu, Undivided family or individual, in which the applicant is assessed or assessable to Income tax, and address for the purpose of assessment	:			
ii)	Name and address of all companies, firms or association of persons in which the applicant is substantially interested in his individual or fiduciary capacity.	:			
iii)	The Income Tax circle/Ward/District in which the applicant is assessed to Income Tax and G.I.R.No.	:			
iv)	The following particulars to be furnished concerning the income tax assessments for the preceeding three years.	:			
a.	The total contract amount received during the preceding three accounting years (give opening date and closing day of the year) being previous years of		2021-2022 2020-2021 2019-2020		
b.	Year	Total income Assessed (Rs.)	Tax demanded (Rs.)	Tax paid (Rs.)	Balance due (Rs.)
	(1)	(2)	(3)	(4)	(5)

**Signature of the Tenderer,
With date and seal.**

State for the past three years:-

Note:-

1) Tax in column (3) and (4) should include all items, income tax, super tax, surcharge, excess profit tax, business profit tax and Goods & Service tax.

2) If any tax is remaining unpaid, the reasons should be explained in an attached statement.

a) In case there has been no income tax assessment in any year whether Returns have been submitted under section 22(1) or 22(2) or tax has been paid in advance under section 18-A (3) of the Act and if so the amount of income returned for each year and tax for each of the three years mentioned above and the income tax circle/ward/district concerned where such returns have been filed give reasons for the same.

b) Whether any attachment or certificate proceeding in respect of the arrears.

c) The name and address of the branch (es), if any

I declare that the above information is correct and complete to the best of my information and belief.

(Signature)

Signature of the Contractor

Registered No.

Address

Date

(To be filled in by the Income Tax Officer)

In my opinion the assessee mentioned above has been/has not been doing everything possible to pay tax demands promptly and regularly and to facilitate the completion of the pending proceedings.

Signature of the Income Tax Officer,
Circle/Ward/District.

**Signature of the Tenderer,
With date and seal**

**GENERAL TERMS AND CONDITIONS FOR THE TENDER FOR THE SUPPLY AND
INSTALLATION OF ARTICLES/EQUIPMENTS TO POLICE DEPARTMENT**

TENDER FORM:

1. The tender schedule is not transferable and it should be used only by the tenderer to whom it is officially issued by the police department.
2. The tender document may be downloaded or obtained from this office ONLY should be used and it should be resubmitted in full shape without detaching any page from it. Tenders in any forms other than the forms and schedules issued by the department to the tenderer will not be considered and will be rejected as non-responsive.
3. Incomplete tender documents will be rejected.
4. Each page of the document, including technical specifications, should be duly signed.
5. Preference will be given to suppliers possessing previous experience in supply, installation and maintenance of Blinker light, Caution board and Cats eye.
6. When the tender is made by an individual, it shall be signed with his name and address and in case of a partnership firm, it shall be signed by one of the partners empowered to submit tenders on behalf of the partnership as contemplated. If it is made by a company or corporation it shall be signed by an officer duly authorized for the purpose. In all cases, the status of the tenderer, whether a proprietorship, partnership, company or corporation should be furnished in the covering letter with full address of the tender's name, names of partners, directors etc. The tender should also furnish such particulars/evidence as may be required by the competent authority in this department before execution of the agreement.
7. If any covering letter accompanying the tender document is in tenderer's letterhead form, all terms and conditions printed there in should be scored out and duly authenticated. It should be distinctly understood that such printed terms and conditions in the letterhead will not have any binding on this department and those terms and conditions quoted in the tender document only will be considered.
8. No erasures, interpolations or alterations will be allowed except when initialed by the tenderer.
9. Leaflets/brochures regarding the product should be enclosed.

**Signature of the Tenderer,
With date and seal.**

Terms & Conditions:-

- i. The supply and installation of the items shall be completed within 45days from the date of receipt of purchase order.
- ii. Any delay in delivery beyond the delivery schedule will render the vendor liable for penalty at the rate of 1% per week on the value of undelivered quantities subject to a maximum of 5% of undelivered quantity & subject to a maximum 30 days and thereafter the department will hold the option to cancel the purchase order and forfeit the entire amount of EMD/Security Deposit. If such a situation were to arise the department shall complete the execution of incomplete orders through alternate sources at the risk and cost of defaulting vendor. In addition, the vendor shall also be liable to pay cancellation charges as per the orders in force.
- iii. The warranty will be valid for a period of **1 Year** followed by 2 years Annual Maintenance Contract including spares. In case of repairs taking longer than one day, replacement device to be provided till original is repaired.
- iv. The items should be delivered at the installation site directly with proper permission obtained from Department.
- v. The bill of cost should be submitted to this office in triplicate affixing “One Rupee Revenue Stamp” on the first copy of the bill for making payment and an advanced stamped receipt for the bill amount should also be submitted along with the bills after completion of installation.
- vi. Full payment will be made only on completion of the supply and erection of the equipment and if necessary only after getting inspection report from Quality Control Committee and completion of erection report. No advance payment/Part payment will be made in this regard.
- vii. The vendor will execute contract on its own and he will not subcontract the work. If found any deviation, the legal action may be taken against the company in the jurisdiction of Salem District.

**Signature of the Tenderer,
With date and seal**

GENERAL TECHNICAL REQUIREMENT OF OFFERED ITEMS

1. The product's offered should be from the current manufacturing range and should have a certificate from the manufacturer to that effect.
2. Imported products should be certified by CEE /FCC/ROHS.
3. Certificate of origin should be presented along with the supplies for realization of payments.

EARNEST MONEY DEPOSIT:

10. Earnest money deposit for 1% of the total cost of the equipment, by way of Bankers cheque or DD in favour of the Commissioner of Police, Salem City should be compulsorily appended with the tender document, containing the technical bid. Personal/company cheques will not be accepted.
11. Any tender submitted without EMD will be summarily rejected.
12. In the case of unsuccessful tenderers, their Earnest Money Deposit will be returned to them in due course soon after final decision is taken on the tenders by the department. The Earnest money of unsuccessful tenders outside Tamil Nadu State will, however, be returned by Cheque.
13. The Earnest Money deposits will not bear any interest.

PRICES: DETAILS TO BE FURNISHED AND CONDITIONS:-

14. Rates should be shown distinctly in words as well as figures.
15. The rates must be quoted separately for the supply of each item. Evaluation will be done item wise in respect of this tender.
16. Basic rate, excise duty, sales tax and other taxes should be indicated separately in the respective columns.
17. Price quoted should include the cost of all accessories essential to make the equipment/article fully functional.
18. The country of manufacture of the equipment and of the materials and parts used in the manufacture or assembly of the articles should be clearly noted in the tender.
19. The rates should be kept firm for 180 days from the date of opening of the tenders for acceptance.
20. No charges other than those mentioned in the supply order will be paid under any circumstances.

**Signature of the Tenderer,
With date and seal.**

DEMONSTRATION OF EQUIPEMENT AND EVALUATION

21. The tenderer should produce the equipment / materials, for demonstration which he has quoted in the tender document before the technical evaluation committee as and when called for. The evaluation may be done within a week from the date of opening tender.
22. The tender will be rejected if the article is not produced for demonstration and the Earnest Money Deposit is liable to be forfeited in the event of such failure.
23. Each sample produced for demonstration must have a label attached to it, showing clearly the name of the tenderer and the country of manufacture and that of the origin of material used in the manufacture.
24. Evaluation will be based on whether the article meets the vital specifications and upon the quality and durability of the product and terms and conditions regarding warranty training and servicing capability. Failure to repair at warranty period, security deposit may be forfeited.
25. No extension of date and time will be given for producing the article for demonstration and technical evaluation.
26. a) The Lowest tender will not necessarily be accepted.
b) Detailed specification is enclosed.

WARRANTY:

27. The warranty period shall be **1 YEAR** from the date of supply / installation of the equipment and commencement of functioning. **2 YEARS** of AMC after completion of warranty including spares. In case of repairs taking longer than one day, replacement device to be provided till original is repaired.
28. The warranty period shall cover defects in materials or bad workmanship under normal use and service for the period of warranty notwithstanding the fact that the materials were inspected and approved by inspecting officers.

ACCEPTANCE OF TENDER:

29. Notification of acceptance of tender by the department shall be deemed to result in and constitute a valid and considered contract binding on the tenderer. If the tenderer withdraws his/her tender after acceptance by the department, the EMD shall be forfeited.

**Signature of the Tenderer,
With date and seal.**

RELEASE OF PURCHASE ORDER:

30. The Contractor should examine carefully the purchase order immediately on receipt and bring to the notice of the indenting officer within five days of receipt of purchase order any discrepancy with regard to the quantity ordered, specification, packing, etc. for prompt rectification. The letter should be sent by registered post acknowledgement due. Meanwhile, supply of the materials which are cleared in all respects for dispatch and acceptance by the consignees shall be arranged by the date mutually agreed upon and should not be held up for any reason whatsoever.

AGREEMENT:

31. The successful tenderer should execute an agreement in non-judicial stamp paper having a face value of Rs.100/- within 7 days from the date of receiving of provisional acceptance order by the department for the due fulfillment of the contract.
32. Successful tenderers will be required to execute an agreement in the form which can be obtained from the office of the Commissioner of Police, Salem City. The stamp duty on the agreement shall be borne by the successful tenderer. On their executing the agreement, the Earnest Money will be returned to them. In case of firms outside Tamil Nadu State the Earnest Money received will be returned to them by cheque.

Security Deposit:

33. Security deposit equivalent to 5 percent of the total value of the supplies contracted for will have to be furnished by the successful tenderer. This is liable to be forfeited either in full or in part, for any breach of conditions of contract or default on the part of the contractor.
34. The Earnest money deposit will be forfeited if the successful tenderer fails to remit the security deposit and execute the agreement within the period specified. The security deposit will be refunded only upon satisfactory fulfillment of the contract after completion of supply of the entire materials ordered and expiry of the guarantee/warranty period duly adjusting the amount due to the department if any.
35. Security deposit paid by the successful tenderer will not bear any interest.
36. On successful completion of supply and installation to the satisfaction of the police department and on receipt of the invoice bill in triplicate, 100% payment will be settled immediately. Security deposit of 5 percent will be retained as performance guarantee and this will be settled after the warranty period is over and also after getting a certificate from the user department to the effect that the items purchased are up to their satisfaction.

**Signature of the Tenderer,
With date and seal.**

37. The Commissioner of Police, Salem City acting on behalf of the Governor, Tamil Nadu or any other authority empowered in this matter shall have the right of rejecting any tender without assigning any reason for doing so.
38. The Commissioner of Police, Salem City or any other authority empowered shall have the right of requiring a successful tenderer to supply a greater number or quantity of the articles mentioned in the schedule than the number or quantity mentioned therein.
39. Tenders will be liable to rejection:
- i) If the tender is not in the form supplied by this office.
 - ii) If the Tender is not accompanied by the receipt of the Earnest Money (or) Valid proof of Exemption.
 - iii) If the Tenderer enters any restriction on other conditions in his tender.
 - iv) If the Tenderer enters one rate in figures and another in words and declines to abide by the lower of the two.
 - v) If the Tenderer alters the period of supply or expunges any clause in the form of tender
 - vi) If the Tender is presented without signature.

Reservation of rights:-

40. The authority competent reserves the rights:
- i) To award contract to one or more Tenderers in respect of each item covered by the tender.
 - ii) To reject any or all the tenders without assigning any reasons therefore.
 - iii) To relax or waive or modify at his discretion any of the conditions/specifications in the interest of the department.
 - iv) The decision of the tender accepting authority of the department in this regard shall be final, conclusive and binding on the supplier.

Delivery:

41. The rates accepted will be for delivery at such destinations as indicated in the tender document or in subsequent purchase order.
42. The delivery period shall be reckoned from the date of receipt of the purchase order by the supplier. The date of delivery as per postal acknowledgement due in the case of purchase order sent by post or the date of delivery if delivered in person or through special messenger shall be deemed to be the date of receipt for the purchase order.
43. Delivery period is inclusive of pre-delivery inspection. The date of delivery of materials in good condition to the consignees shall be the date of supply. The rate of progress indicated in the purchase order should be maintained. The materials should be delivered to the consignees as per the purchase order placed.

**Signature of the Tenderer,
With date and seal.**

44. **Acceptance of materials by the consignee:-** If on examination of the sample, any portion of the supplied materials/equipment is found to be damaged or substandard or not fully in accordance with the relevant specifications, the whole supply shall be rejected irrespective of the fact that this material was cleared under pre-delivery inspection. The materials/equipment should strictly conform to the specifications given in the tender conditions. In case of doubt whether the materials conform to the specifications or not, the decision of the consignee shall be final. The consignee has right to reject the equipment found not conforming to the specifications and they should be replaced within seven days at the cost of the supplier.

45. **Penalty:-** Where the supply is not completed within the delivery schedule, without prejudice to the right of the department to cancel undelivered portion of the purchase order, extension of time may, if so required by the contractor may be granted at the discretion of this department. Such extension of time will entail recovery of penalty from the contractor at 1% per week, on the value of the undelivered quantities subject to maximum of 5% of the value of the undelivered quantity.

46. The officer authorized by this department will have the right to cancel the purchase order and to recover from the contractor liquidated damages at 2% of the value of the undelivered quantity or the extra financial commitment to this department on the purchase of the balance quantity, whichever is higher besides forfeiting the security deposit.

Certificates and details to be furnished

47. Latest income tax clearance certificate and latest sales tax verification certificate should also be appended with the tender document.

48. For EMD Exemption, proper valid proof attached.

49. The tenderer should furnish details of orders executed for Government departments on hand or pending execution. Certificates in proof of these should also be furnished.

50. The tenderer shall furnish the location and full address of the factory and the details and capacity of the plant.

**Signature of the Tenderer,
With date and seal.**

51. The tenderer should furnish proof of having a service center in Tamil Nadu for carrying out service and maintenance of equipment's. The detailed address of the service center and the no of personnel it should be furnished.

Submission of Tender Schedule:

55. Tenders should be super-scribed as "Tenders for the supply of articles to the "Salem District Police" sealed and addressed to the Commissioner of Police, Salem City and should reach her/him as stipulated thereto.

Comprehensive Warranty and Annual Maintenance Contract Clause:

1. The warranty shall remain valid for 1 year followed by 2 years AMC including spares after the goods or any portion thereof and the case may be, have been delivered to and accepted at the final destination indicated in the contract. The warranty will come into effect from the date of Commissioning of the equipments / materials and from the date, the machines are switched ON.

2. a) On-site Comprehensive warranty will be done by the seller.
- b) Comprehensive Warranty shall include all supplies of spares and services,
- c) The bidder should have either an existing maintenance base in Tamilnadu or existing Local office with qualified manpower, telephone facilities & sufficient spare stock etc for providing proper support.
- d) Breakdown will be attended within 24 hours from the receipt of information at the local office of the Supplier and fault should be rectified within 48hours.
- e) 95% availability (uptime) for each System on monthly basis should be guaranteed. If the machine downtime is expected to continue over to the next 5 working days or more, the defective System / Components shall be replaced by a suitable System / Components of the same or higher configuration.

**Signature of the Tenderer,
With date and seal.**

- f) The availability percentage shall be calculated for each calendar month. Penalty will be imposed on prorata basis, if the availability falls below 95 % thus $\text{Penalty} = ((95\% - \text{actual availability}) \times (\text{Total Unit Price} / 200)) / 95\%$.
- g) No bonus or additional sums shall be payable if the availability is more than 95%.
- h) Availability percentage for each System will be calculated as follows:
 $\text{Availability Percentage} = (\text{No. of working days in the month} \times 8) - (\text{Downtime hours during the month}) / (\text{No. of working days in the month} \times 8) \times 100$.
- i) Penalty for any month to be imposed will be calculated in the basis of the following table:

Penalty Calculation Table:

Availability Percentage (rounded)	Penalty
95% and above	Nil
75% to 94%	As per rate calculated in clause f, g, h
Below 75%	Total Unit Price / 200

- k) Uptime will be for the entire system. i.e. in case, part of the system is out of order such that no useful output can be obtained from the system, the total system shall be considered to be under breakdown. If the machine is not bootable, it will be considered as breakdown. Part of the system, as narrated elsewhere in the contract, includes keyboard, mouse, monitor, hard disk, drives, etc. This is applicable for Desktops and All in One Desktops only.
- l) The seller can deposit the penalty with Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG) to the extent of the PBG amount.

**Signature of the Tenderer,
With date and seal.**

CERTIFICATE BY THE TENDERER

I/We have gone through the terms and conditions and will abide by them as laid down above and in other sections of this tender document.

I/We hereby declare that the particulars furnished by us in this offer are true to the best of my/our knowledge and we undertake to accept that if at any stage information furnished is found to be incorrect or false, we are liable for disqualification from this tender and also liable for any penal action that may arise due to the above.

**Signature of the Tenderer,
With date and seal.**

TECHINICAL SPECIFICATION

SPECIFICATION – SOLAR FAST FLICKERING SIGNAL LIGHT FOR WITH RED, WHITE, BLUE LED, CATS EYE, SIGN BOARD, CAUTION BOARDS ,SPEED RADAR GUN WITH SPEED LASER CAMERAS,SPEED RADAR GUN TRIPOD MODEL,SOLAR STUDS(BLINKERS), REFLECTIVE JACKETS, REFLECTIVE GLOVES(TRAFFIC), BATON LIGHTS WITH CHARGER(SMALL SIZE),REFLECTIVE TAPE 3M-RED,WHITE, YELLOW

<u>ENGINEERING WORKS</u>		
I.SOLAR FAST FLICKERING SIGNAL LIGHT FOR WITH RED, WHITE, BLUE LED		
S. NO	PARAMETER	DESCRIPTION
I. Main Pole		
1	Main Pole	i) MS Pipe 2 Nos of Top Cross L type pillar – Vertical Arm – 4” dia, 20ft height, 3mm pipe thickness. ii) Cantilever Arm (at 45 Degree) – 10 feet length 3" dia, 2.5mm pipe thickness. iii) Horizontal Arm - L Type angle (2x2 inch) 3ft length. iv) Reflective sticker should be pasted on full length on every painted poles.
2	Blinker Size, Body Material	300 mm(12 inch) dia or more - Should be made by Moulded Polycarbonate sheet. (Black – suitable for extreme weather condition)
3	Gasket	Rubber Gasket for Sealing between Lens and Signal Unit.
4	LED Colour	Red, white & Blue.
5	LED Used	Should be Ultra-Bright water Clear. High Glowing Power Saver Super Bright LED's to be used.
6	Viewing Angle	24 Degree from central axis in either plane.
7	No. of LED's (Top Light)	Red LED = 150 Nos, White LED = 150 Nos, Blue LED = 150 Nos (5mm LED)
8	No. of LED's (Bottom Light)	Red LED = 180 Nos (5mm LED).
9	Flash Frequency	40 Blinks / minute and can be adjusted.
10	Visibility	500 Mts or more.
11	Solar Panel and Battery.	125W Solar panel – 2 nos, 72Ah Battery – 2 no, (Lip 04 Lithium Ferro phosphate battery models) 15A Charge Controller – 2 Nos.

12	Charges Control Unit (CCU)	Built in Type helps to protect battery from deep discharging as well as overcharging Also protect panel from Reverse Voltage.
13	Working Voltage	12v DC
14	Power Supply	Total Solid State Electronic Circuitry.
15	Battery Operation	48 hours minimum.
16	Control Chord	Should be In built and solid state.
17	Power Factor	>0.9 or better.
18	Base concrete	With 1½x1½ feet Square concrete (2 feet below, 1½ feet above ground) foundation pit with 15 grade cement concrete.
I. Advance poles		
1	Advance pole	MS pipe 4 Nos of 3” Dia, 17 feet height, and 2.5mm pipe thickness. All poles should be painted properly. Reflective sticker should be pasted on full length on every painted poles.
2	Blinker Size, Body Material	300mm dia blinker board - Should be made by Moulded Polycarbonate sheet. (Black)
3	No. of LED's	Red LED = 180 Nos (5mm LED) and delineator.
4	Flash Frequency	40 Blinks / minute and can be adjusted.
5	Visibility	500 Mts or more.
6	Solar Panel and Battery.	50W Solar panel – 4 no, 27Ah Battery – 4 no, (Lip 04 Lithium ferro phosphate battery models) 5A Charge Controller – 4 no
7	Battery Operation	48 hours minimum.
8	Base concrete	With 1½x1½ feet Square concrete (2 feet below, 1½ feet above ground) foundation pit with 15 grade cement concrete.
II. Solar cat eye		
1	Solar cat eye	Metal Solar cat eye- 100 Nos <ul style="list-style-type: none"> • Durable & Sturdy design. • Superior finish • Lithium Batteries. 48 hours power backup type.
III. Sign Board		
	Sign board	6Spec. enclosed
IV. Cautionary Board		

1	Cautionary Pole	MS pipe – 2 nos of 10 feet height, 3” Diameter, 2.5mm pipe thickness. Reflective sticker should be pasted on full length on every painted poles.
2	Cautionary Board	3’ Board -2 Nos. Providing and fixing of retro – reflectorized Cautionary, mandatory and informatory signs as Per IRC 67-2001. Made of (HIP) High Intensity Prismatic Grade Sheeting vide Clause 80 1.3 fixed over 900mm x 1200mm Aluminium Sheeting 1.5mm thick supported on a 25mm x 25mm x 3mm mild steel angle frame.
3	Base concrete	With 1½x1½ feet Square concrete (2 feet below, 1½ feet above ground) foundation pit with 15 grade cement concrete.
General		
1	Reflective sticker	The reflective tape must be minimum 2 inch width & 50 meters length. IRC: 67-2012 Class B (Type III or IV) (3M reflective tapes)
2	Paint colour	All Poles should be painted in yellow colour.
3	300mm Dia – 150 Nos of LED - Red, Blue, white blinker lights.	Each 2 Nos (Total 6 Numbers) for 2 main poles.
4	300mm Dia, 180 Nos of LED - Red blinker lights	6 Numbers (For 2 main poles & for 4 Advance poles)
5	LED 3mm Reflective Delineator	6 Numbers (For 2 main poles & for 4 Advance poles)
6	Accessories	Should have suitable flashing circuit box (2 NO.S), Automatic on/off circuit box (2 NO.S)
		Wiring must be laid with proper piping and accessories.
		100 numbers of Solar cats eye should be installed at the appropriate location.
7	Battery	Should be properly protected and should be Theft proof.
8	Repair / Replacement of damaged parts.	within 24 Hrs.
9	Structural Stability & Material warranty	3 Years.
10	Maintenance	3 years of free maintenance.

NON –ENGINEERING WORKS

I.SPEED RADAR GUN HAND HELD WITH SPEED LASER CAMERA

SI.N	PARAMETER	DESCRIPTION
1.	Measuring range for speed	20 to 300 Kmph approaching and departing
2.	Accuracy for speed	+/- 2 Kmph
3.	Measuring Distance	Maximum measuring distance 500mtrs Minimum measuring distance 16 mts
4.	Accuracy for distance	+/- 0.5 mtrs
5.	Laser type	Laser Eye safety : Class 1
6.	Weight	Not more than 4 KG
7.	Environment	NEMA / IP 55 class Water and dust resistance
8.	Operating temperature	16 to 44 degree c
9.	Operating voltage	12 V DC/7.5 V Rechargeable battery
10	Battery	Lithium ion polymer rechargeable battery pack with short circuit protected and over charge protected , providing 4 hrs of cordless operation or minimum 2000 speed measurements
11	Frame or body of the machine	Composite poly carbonate outer shell, aluminium internal chassis or Aluminium with better environmental approval
12	Telescopic Tripod	Required adjustment up to 5 feet.
13	Printer	Colour / black and white printer
14	Chalan format	Name of the violator, Speed, Allowed speed limit , Distance, Place of Violation, Vehicle Number, Date and Time
15	Mode	Day Mode & Night Mode
16	Camera	Shutter speed: 200 is dark environment. 400 is lower speed zone. 600 is faster speed zone. Camera focus length- tripod mount- 15-90mtrs. Rear plate capturing mode should be available.
17	Display/ front panel	LCD (Touch screen)/ LED touch screen
18	Number plate capturing	Yes
19	Video and image recorder	Capable to record the video or still images with in the machine memory for 4 hours.

20	Accessories	1. Carrying case 2.Battery Charger 3. Extension Board
21	Operator Manual	Original Manual will be provided with every machine
22	Terms & Conditions	The entire product should be manufactured by single OEM
23	Training	Training should be given to the Operators
24	Warranty	3 Years or as per OEM.

II. SPEED RADAR GUN TRIPOD MODEL

1	Distance range:	10 to 500 meters or more on reflective board
2	Distance Accuracy:	+/- 10 cm or better
3	Speed Range:	+/- 4 to 199 Kmph or better
4	Speed Accuracy :	+/-1 Kmph or better
5	Acquisition time Laser:	20 measurements per second.
6	Settable Speed Limit:	Variable in steps of one.
7	Laser Divergence:	2.0 mrad
8	Licence Plate Capturing capability DAY:	upto 100 meters or better
9	Licence Plate Capturing Night:	Upto 100 meters or better
10	Laser:	Class I (Eye Safe) 905 nm
11	Measuring Mode:	Auto / Manual
12	Digital Zoom of camera:	10X (Combined Zoom 300X) or better
13	Resolution:	5.1 Mega pixels (Interpolated) or better
14	Temperature of Operation:	0 to 60 degrees C
15	Memory:	500 GB internal memory, Removable SD card
16	Flash:	Integrated IR Flash as per customer requirement.
17	Video:	20 FPS or better
18	Camera:	Built in ANPR camera
19	Mode of Operation:	Tripod Mounted
20	GPS and Wi-Fi:	Yes
21	Environment:	IP 65-IP 67/Water and Dust resistant
22	Eye Safety:	FDA Class 1 (CFR21) and IEC 60825-1 Class 3R
23	HLC Mode:	Yes

24	Built in 4G SIM slot:	Yes
25	Printer:	Portable Wi-Fi enabled printer with Wi-Fi or inbuilt printer
26	Software:	Should be able to print challans at a remote location apart from the spot.
27	Description:	Speed Radar Gun should be of tripod mounted type for traffic enforcement and operated at the distance of 200-500m range from the vehicle to be captured. It should have powerful built in ANPR Camera which can pick a number plate from upto 300m in day light from a vehicle number plate and 150m during Night from tail end side with good clarity. It should be able to capture speed violating Vehicle with good accuracy with minimal delay. Speed Radar Gun should be enabled with Wi-Fi or any other wireless technology or internet to communicate with the Wi-Fi Printer/ Computer in the Toll plaza/ Police Vehicle kept at a remote location from the Speed radar Gun to print the challan along with the Vehicle image. It should have both the Auto Mode and Manual Mode. In the automatic mode it should capture the still picture of offending vehicle image once set in a lane, without any human intervention. In the manual mode it should wait for the operator instruction to capture next image. The saved images shall be used as a proof of violation to submit before the Court.
III. SOLAR STUDS(BLINKERS)		
		Spec. enclosed
IV. REFLECTIVE JACKETS		
1	Fabric	Mesh type.
2	Reflective band	3M Preferable
3	Reflective band size and color	2" (Front & Black) Reflective Tape will be silver gray & glossy white.
4	Color	Orange or Green
5	Size	XXL, Height & width – 69 x 62 CM.
V. REFLECTIVE GLOVES (TRAFFIC)		
1	Feature	Reflective bands on both side front & back.

2	Colors	Fluorescent orange, green & yellow colors.
3		Full fingered type hand gloves.
4	Material	Cotton material
5	Usage	keep warm, anti scratch, reflective in night time.
VI.BATON LIGHTS WITH CHARGER(SMALL SIZE)		
1	Battery	Rechargeable
2	Lighting Type	LED
3	Brand	H2
4	Diameter	Min 4 cm(40mm)
5	Flashing Style	Red Flashing/Red Steady/Off
6	Material Pipe	PVC (Body will be made of transparent plastic.)
7	LED No Of Led	12 LEDs or more
8	View Distance	More Than 200 Mtr
9	Length	Min 40/54 cm
10	Handle Material	ABS
11	Working Hours	8 Hours after 1 hour charging
VII. REFLECTIVE TAPE 3M(1 ROLL-50 Mtrs) –RED		
		Spec. enclosed
VIII. REFLECTIVE TAPE 3M(1 ROLL-50 Mtrs) –WHITE		
		Spec. enclosed
IX. REFLECTIVE TAPE 3M(1 ROLL-50 Mtrs) –YELLOW		
		Spec. enclosed

**Signature of the Tenderer,
With date and seal.**

PRICE BID (TENDER DOCUMENT -1)

SCHEDULE TO BE FILLED UP AND SIGNED BY THE TENDERER

S. No	Description	Qty	Unit	Rate per Unit	Amount in Words.
1	Supply, Installation and Maintenance of solar fast flickering signal light for with red, white, blue led, cats eye, sign board, caution boards ,speed radar gun with speed laser cameras, speed radar gun tripod model, solar studs(blinkers), reflective jackets, reflective gloves(traffic), baton lights with charger(small size),reflective tape 3m- red, white, yellow as per technical specification mentioned.	1.00	Set		

**Signature of the Tenderer,
With date and seal**

CHECK SLIP

1.	Have you enclosed Document fee and EMD?	Yes / No
2	Details of mode of Document Fee and EMD Payment	DD/BG
3	Have you enclosed photocopy of latest Income Tax clearance Certificate?	Yes / No
4	Have you enclosed photocopy of latest Sales Tax Verification Certificate & GST?	Yes / No
5	Have you Enclosed Details of Turnover?	Yes / No
6	Have you submitted Both Technical Bid & Commercial Bid and EMD?	Yes / No
7	Have you enclosed details of orders executed for Govt. departments / Public sector Undertakings / Autonomous Boards and orders for such organizations on hand or pending execution?	Yes / No

**Signature of the Tenderer
With date and seal.**



भारतीय राष्ट्रीय राजमार्ग प्राधिकरण

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India

(Ministry of Road Transport and Highways)

Project Implementation Unit : Salem

Door No. 212-3/D3-1, Sri Nagar Colony

Narasothipatti, SALEM - 636 004, Tamil Nadu



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NHAI/PIU-SLM/Road Safety/2022/531

To

The Commissioner of Police,
Salem City.

Sir,

Sub: NHAI - PIU- Salem - Purchase of Road Safety equipments under Road Safety Fund by Commissioner of Police, Salem City - Specifications on the equipments and Road furniture as per IRC and MoRTH standards- Details Furnished - Reg.

Ref: 1. CoP, Salem city Lr. No. G5/87/E-602943/2020 dated 30.03.2022

With reference to the letter from Commissioner of Police, Salem City requesting to provide specifications for the Road Furniture items for the purchase of Road Safety equipments, the specifications and rates for Road Furniture finalized during the meeting of Board of Engineers on 24.09.2021 is enclosed herewith as Annexure-I for your kind reference.

Yours faithfully

Encl: Annexure-I

(T.Kulothungan)
DGM (T) & Project Director
PIU-Salem

ANNEXURE -

ROAD FURNITURE RATES

MEETING OF THE BOARD OF ENGINEERS HELD ON 24.09.2021

Rate in Rs.

Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
1	Retro-Reflectorised Traffic Signs (with out definition board) Type - IV			
	Providing and erecting of Retro - Reflectorised Cautionary, Mandatory and Informatory signs (without definition board) made out of High Intensity Prismatic Grade Sheeting confirming to Type-IV standards of IRC-67: 2012 and ASTM D 4956 -09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro - Reflecto sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.6 of IRC 67-2012. The retro - reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012 . (as per MORT&H Specification No.801)			
i	90 cm equilateral triangle	Each	4048	5126
ii	60 cm equilateral triangle	Each	2632	3228
iii	60 cm circular	Each	3596	4513
iv	80 cm x 60 cm rectangular	Each	4954	6349
v	60 cm x 45 cm rectangular	Each	3440	4316
vi	60 cm x 60 cm square	Each	4086	5184
vii	90 cm high octagon	Each	6335	8205

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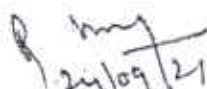
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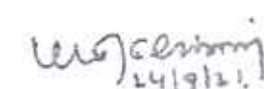
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K. Singh
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C.E.(H) TNRS-P-II.

B. Singh
24/9/21
DG HIGHWAYS

Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
3	Direction and Place Identification Signs - Type - IV			
	<p>Providing and erecting of Direction and Place Identification Retro-reflectorised Sign made out of High Intensity Prismatic Grade Sheeting confirming to Type-IV standards of IRC-67: 2012 and ASTM D 4956 -09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro Reflecto sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.6 of IRC 67-2012. The retro- reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012. (as per MORT&H Specification No.801)</p>			
i	Rate per sqm (for sign having area upto 0.9 sqm) Type-IV	Sqm	8777	11491
ii	Rate per sqm (for sign having area more than 0.9 sqm) Type-IV	Sqm	9057	11805


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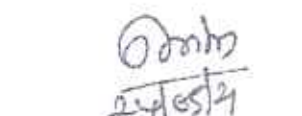

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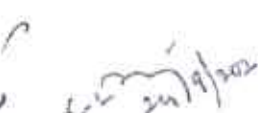

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
2	Retro-Reflectorised Traffic Signs (with definition board) Type - IV			
	<p>Providing and erecting of Retro - Reflectorised Cautionary, Mandatory and Informatory signs (with definition board) made out of High Intensity Prismatic Grade Sheeting conforming to Type-IV standards of IRC-67: 2012 and ASTM D 4956 -09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro - Reflecto sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.6 of IRC 67-2012. The retro - reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012 . (as per MORT&H Specification No.801)</p>			
i	90 cm equilateral triangle	Each	5373	6900
ii	60 cm equilateral triangle	Each	3954	4999
iii	60 cm circular	Each	4917	6283
iv	80 cm x 60 cm rectangular	Each	6276	8120
v	60 cm x 45 cm rectangular	Each	4762	6087
vi	60 cm x 60 cm square	Each	5411	6958
vii	90 cm high octagon	Each	7658	9976

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
4	Direction and Place Identification Signs - Type - XI (For location of black spot, curve, sharp bend, junction, ghat roads and critical zone applications)			
	Providing and erecting of Direction and Place Identification Retro-reflectorised Signs made out of Cube Corner Micro Prismatic Grade Sheeting confirming to Type-XI standards of IRC-67: 2012 and ASTM D 4956 -09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm with a clear height of not less than 2.10m from the ground level to the bottom of the sign board and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. Micro Prismatic grade Retro - Reflectro sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.9 of IRC 67-2012. The retro -reflective sheeting shall be covered under 10 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012. (as per MORT&H Specification No.801) (For location of black spot, curve, sharp bend, junction, ghat roads and critical zone applications)			
i	Rate per sqm (for sign having area upto 0.9 sqm) Type XI	Sqm	10766	14041
ii	Rate per sqm (for sign having area more than 0.9 sqm) Type - XI	Sqm	11046	14355

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
5	Metal Beam Crash Barrier Type - A, "W" Double Guard			
	Providing and erecting Single sided Double Guard Metal Beam Crash Barrier System 1.70m high, comprising of 3mm thick wall "W" beams posts and spacer channels shall be made by cold roll forming using HR conform to IS 5986 Fe 410/360 and dip galvanized having Zinc Mass of 550gms/ sqm, minimum 950mm above road/ ground level fixed on ISMC series channel vertical post 150x75x5mm spaced 2m center to center 312mm x 83mm flange width x 3mm thick, 4318mm long post directly embedded in the concrete (M15) pit size 350x350x800mm for a depth of 750mm below ground. All fixing bolts and nuts hot dip galvanized conforming to IS:1367 clause 4.60 all complete as per Technical Specification and as directed by the Engineer-in-charge			
	Metal Beam Crash Barrier Type - A, "W" Double Guard	RM	5864	6500

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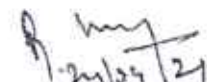
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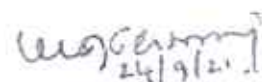
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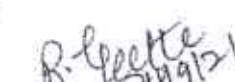
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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
6	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface			
	Providing and laying of hot applied Thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes etc complete as per MORT&H specification No.803			
	Road Marking with Hot Applied Thermoplastic Compound with Reflectorising Glass Beads on Bituminous Surface	Sqm	841	890


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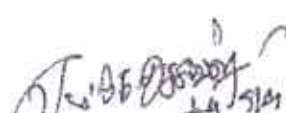

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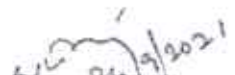

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
7	Road Markers/Road Stud with Lens Reflector			
	<p>Providing and fixing reflective road studs of 'category A' Raised pavement markers made out of poly carbonate / methyl methacrylate/ABS moulded body confirming to ASTM D 788 and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face with retro reflectance and chromaticity values conforming to ASTM D4280. The reflective raised pavement markers shall also confirm to the MORTH circular No RW / NH. 33023/10/ 97-DO.III dt 11.06.97. The height, width and length shall not be less than 15 mm, 90 mm and 100 mm and with minimum reflective area of 13 Sq.cm on each side and the slope to the base shall be 35 +/- 5 degree. Each reflector shall have a CIL not less than values specified in Table 2 of said MORTH circular. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19 +/- 2mm and height not less than 30 +/- 2 mm) from the body is to be a minimum value of 500 Kgf. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. The marker shall support a load of 13635 Kg tested in accordance with ASTM D4280 and confirming to IRC 35 - 2015 guidelines and MORT&H specification 804 etc., complete</p>			
	Road Markers/Road Stud with Lens Reflector	Each	414	480

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
8	Road Delineators			
	Supplying and installation of delineators (road way indicators, hazard markers and object markers), 80-100 cm high above ground level, painted at alternatively black and white in 15 cm wide strips, fitted with 80 x 100 mm rectangular or 75 mm dia circular reflectorised panels at the top, buried or pressed into the ground and conforming to IRC-79 etc., complete (as per MORT&H specification No. 806)			
	Road Delineators	Each	2215	2400

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
9	Hazard Marker Traffic Signs - Type-IV			
	<p>Providing and Erecting of Retro - Reflectorised Hazard Marker Traffic Sign made out of High Intensity Prismatic Grade Sheeting confirming to Type-IV standards of IRC-67: 2012 and ASTM D 4956 -09, specification and fixed over 2mm thick Aluminium sheet fixed over a back supporting frame of 25mmx25mmx3mm Mild Steel angle and supported on a mild steel angle post 75X75X6mm and 0.60m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 45cmX45cmX60cm size including cost and conveyance of all materials, equipment, Machinery and labour with all leads and lifts, loading charges necessary for satisfactory completion of the work as directed by the engineer in charge. High intensity Retro - Reflectro sheet shall consist of minimum coefficient of Retro-reflection as per Table 6.6 of IRC 67-2012. The retro- reflective sheeting shall be covered under 7 year warranty issued for field performance and a certified copy of three years outdoor exposure report shall be obtained as per IRC 67:2012. (as per MORT&H Specification No.801)</p>			
	30cm x 90cm rectangular	Each	3342	4000

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
10	Rigid Median Marker			
	<p>Providing fixing of Median marker double sided made of polycarbonate for impact resistance and good weather ability. Polycarbonate used for molding the median marker shall have a minimum Izod impact strength value of 600 J/m at room temperature. The impact strength of the poly carbonate should not decrease to less than 70% of its initial value on being subjected to UV weathering as per ASTM G 155 for 1000 hours or exposure to 2 years of natural weathering. The body of the median marker shall be in the form of an isosceles trapezoidal structure of length 15 cm height and width of 10 x 10 cm. The median marker shall have fluorescent yellow retro - reflective sheeting confirming to Tpe XI specifications as per ASTM D 4956. Area of reflective sheeting should not be less than 70 cm². Edge of retro reflective shall be concealed using a grill/mesh/similar mechanism to prevent vandalism and sheeting pilferage. The logo of the manufacturer shall be embossed and painted in contrasting colour on both side of median marker for distinct identification.</p>			
	Rigid Median Marker	Each	445	470

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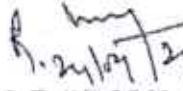
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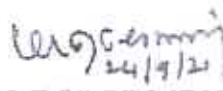
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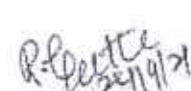
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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
11	Flexible Delineator / Spring Post			
	<p>Providing and Fixing of Flexible Median Marker that are made of tough, high impact resistant, injection-molded, thermoplastic body with property of flexibility to provide high durability. The dimension of Flexible Median Marker should not exceed 18.4 cm in height(including shank height), 12.5 Cm in width, 0.65 cm in thickness and shank depth shall be 3.4 cm The body structure shall be rounded at all its corners and edges. The plastic used for molding the Flexible Median Marker should survive impact load of 5kg continuously for 750 times at room temperature. The logo of the manufacturer shall be embossed on either side of the body in the injection molding process. The Median Marker shall have flame like shaped body with, fluorescent yellow color retro-reflective sheeting of size not less than 90 Cm square, with fully reflective micro prismatic cube corners as its retro-reflective elements as per IRC 67 2012 and ASTM D4956-09 type XI specifications reflectivity values. The retro-reflective sheeting shall be one or both sides of the Flexible Median Marker and shall be edge protected with no exposed edges which will prevent edge lifting, vandalism, sheeting damage, etc. The Flexible Median Marker shall be fixed by a combination of epoxy adhesive and grouting as recommended by manufacturer</p>			
	Flexible Delineator / Spring Post	Each	1800	1980


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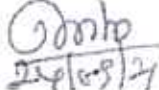

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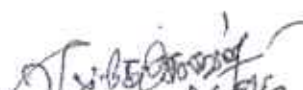

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C.E. (H) TNRSP-II.


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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
12	Star Sign Sticker			
	Providing and fixing of Retro - Reflectorised cautionary Star Sign made out of High Intensity Prismatic Grade reflective Sheeting stucked over CR sheet 0.20 mm / 32 G thickness with black enamel paint firmly fixed on the trees with 1 1/2 " x 14 G wire nails of size 100 mm x 100 mm			
	Star Sign Sticker	Each	80	90

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
13	Solar Raised Pavement Marker / Solar Road Stud			
	<p>Supplying of Solar Raised Pavement Markers made of polycarbonate molded body, solar powered, LED self-illumination in active mode, 360 degree illumination and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face in passive mode. The product shall support a load of 13635 kg tested in accordance to MORTH and ASTM D 4280 Type H. The product should be resistant to water ingress according to IP 65 standards with IS 12063:1987 Category 2 and should withstand temperatures in the range of -7 C to 70 C. Flashing rate and color of lighting is to be provided as per requirement. There should be minimum current losses of less than 20 micro-amperes in sleep-charging mode to enhance product life and single charge should provide for a minimum autonomy of 50 hours. The height, width and length shall not be less than 10 mm x 100 mm x 100 mm. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer. Warranty Certificate and test reports confirming to compressive strength as per MORTH circular shall be obtained from the manufacturer and submitted to the engineer-in-charge. Two Years Warranty Certificate for Solar RPM for the quantity installed and a certified copy of test reports from an independent test laboratory conforming to water ingress shall be obtained from the Manufacturer by the contractor and submitted to the engineer-in-charge.</p>			
	Solar Raised Pavement Marker / Solar Road Stud	Each	3050	3300

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DG HIGHWAYS

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
14	Aluminium backed Flexible Prismatic (AFP) Sheeting			
	Supply and fixing of AFP Sheeting flexible prismatic sheeting shall be of 1ft width and laminated at the back with a 50 micron thick Aluminium (Al) foil with pressure sensitive adhesive and liner, further this flexible prismatic sheeting shall have screen printed arrow /slant line pattern in black colour on top in continuous roll format. Neither AFP sheeting nor the flexible prismatic sheeting used shall crack when slowly bent in second time around a 1/8th inch mandrel after being conditioned for 24 hrs at 0 degrees and tested as per section s2.2.2 of ASTM, D 4956-09. The AFP sheeting with the liner removed shall be applied with a neoprene contact adhesive with polychloroprene as base viscosity of 200-450 cps and solid content of 20-30 % once applied the edges of the product shall be extremely resistant to peel off. A test report from institutes like ARAI/CRR/ conforming to above mentioned flexibility and ASTM D 4956-09 type -vi retro reflectivity performance of the flexible prismatic sheeting used in AFP shall be submitted by the tenderer during pre-qualification and supply of material. 2 years Pre-qualification warranty for field performance shall be submitted by the contractor for technical qualification in the tender			
	Aluminium backed Flexible Prismatic (AFP) Sheeting	Each	8400	9200

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DG HIGHWAYS

14/18

Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
15	Digitally Printed Retro Reflectorized Overhead Cantilever Gantry Informatory Sign Board			
	<p>Providing and fixing of Retro Reflectorized Overhead Cantilever Informatory sign made of cube corner Micro Prismatic grade sheeting conforming to Type XI standards of IRC67 - 2012 and ASTM D4956 - 09, specification and fixed over 2mm thick aluminum sheet fixed on back supporting frame mild steel L angle of size 50mm x 50mm x 6mm. The Vertical support post for the installation of overhead sign Gantry shall be made of 300NB (Nominal Bore) MS Pipe with 12mm thick with a ground clearance of 6 meters along with 80NB (Nominal Bore) MS Pipe with 4mm thick and 40NB (Nominal Bore) MS Pipe with 3.20mm thick support posts. MS Base plate of size 1200mm x 1200mm x 25mm and MS Top plate of size 900mm x 1650mm x 16mm to be used to hold the sign board at the top and bottom respectively. MS Stiffener plates 8mm thick of sizes 420x420, 682x420, 288x288, 288x927 & 44x130 are to be used. Anchor bolts of dimension 25mm dia and 1000mm length are to be used as fixtures. The approved direction information should be digitally printed and should have 70% of the coefficient of Retro-reflection values against the values as mentioned in Table 6.9 of IRC67 - 2012. The Latex printer used for digital printing should use inks with low VOC emissions and have green guard, eco logo certificates as per UL 2801 standards. The retro-reflective sheeting shall be covered under 10 years warranty issued for field performance and a certified copy of three years Outdoor exposure report shall be obtained as per IRC 67-2012 (As per MoRT&H specification No.801). Cantilever sign shall be installed at the site as per the approved structural and foundation drawing provided in the tender document and including cost and conveyance of all materials, equipment, machineries to worksite, including all labour charges for fixing the gantry in position with all leads and lifts, loading charges and necessary for satisfactory completion of the work as directed by the engineer-in-charge etc., complete.</p>			
	Digitally Printed Retro Reflectorized Overhead Cantilever Gantry Informatory Sign Board of Size 5.00m x 1.80m	Each	4,68,127/-	5,40,490/-

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DG HIGHWAYS

C.E.(H) METRO (Addl)

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
16.	Digitally Printed Retro Reflectorized Overhead Gantry Informatory Sign Board			
	<p>Providing and fixing of Retro Reflectorized Overhead Cantilever Informatory sign made of cube corner Micro Prismatic grade sheeting conforming to Type XI standards of IRC67 - 2012 and ASTM D4956 - 09, specification and fixed over 2mm thick aluminum sheet fixed on back supporting frame mild steel L angle of size 50mm x 50mm x 6mm. The Vertical support post for the installation of overhead sign Gantry shall be made of 300NB (Nominal Bore) MS Pipe with 12mm thick with a ground clearance of 6 meters along with 80NB (Nominal Bore) MS Pipe with 4mm thick and 40NB (Nominal Bore) MS Pipe with 3.20mm thick support posts. MS Base plate of size 1200mm x 1200mm x 25mm and MS Top plate of size 900mm x 1650mm x 16mm to be used to hold the sign board at the top and bottom respectively. MS Stiffener plates 8mm thick of sizes 420x420, 682x420, 288x288, 288x927 & 44x130 are to be used. Anchor bolts of dimension 25mm dia and 1000mm length are to be used as fixtures. The approved direction information should be digitally printed and should have 70% of the coefficient of Retro-reflection values against the values as mentioned in Table 6.9 of IRC67 - 2012. The Latex printer used for digital printing should use inks with low VOC emissions and have green guard, eco logo certificates as per UL 2801 standards. The retro-reflective sheeting shall be covered under 10 years warranty issued for field performance and a certified copy of three years Outdoor exposure report shall be obtained as per IRC 67-2012 (As per MoRT&H specification No.801). Cantilever sign shall be installed at the site as per the approved structural and foundation drawing provided in the tender document and including cost and conveyance of all materials, equipment, machineries to worksite, including all labour charges for fixing the gantry in position with all leads and lifts, loading charges and necessary for satisfactory completion of the work as directed by the engineer-in-charge etc., complete.</p>			
	Digitally Printed Retro Reflectorized Overhead Gantry Informatory Sign Board	Each	8,81,911/-	10,15,160/-

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
17	Digitally Printed Retro Reflectorized Sign Board using UV Inkjet Printer			
	<p>Providing and fixing of Retro Reflectorized Sign Boards made out of cube corner micro prismatic grade sheeting of Type-XI standards of IRC 67-2012 and ASTM D 4956 - 09 specification, Digitally Printed using UV Inkjet Printer (UVI) for traffic colour, images/ logos/ text and laminated with clear electro-cutttable film and applied to properly prepared sign substrates, fixed over 2mm Aluminium sheet with back supporting frame of 50x50x6mm Mild Steel 'L' angle and supported on a 150NB (Nominal Bore) pipe with 4.50mm thick with an overall height from top of the board to foundation. The sign board should be of 2.10m clear height from the ground level to the bottom of the sign board and 1.10m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete of size 450x450x1100mm including cost and conveyance of all materials, equipment, machineries to worksite, including all labour charges for fixing the gantry in position with all leads and lifts, loading charges and necessary for satisfactory completion of the work as directed by the engineer-in-charge etc., complete. The Micro prismatic sheeting should have minimum 70% co-efficient of Retro-reflection values as per table 6.90 of IRC 67-2012. The retro-reflective sheeting shall be covered under 10 Years warranty issued for field performance and a certified copy of 3 years outdoor exposure report shall be obtained as per IRC 67-2012. The warranty shall be inclusive of digitally printed images/ logos/ test/ legends and their bonding to the retro-reflective sheeting (as per MORT&H specification no.801) of Size - 3.64m x 2.42m</p>			
	Digitally Printed Retro Reflectorized Sign Board using UV Inkjet Printer	Each	1,37,235/-	1,57,550/-

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C.E. (H) P.D.&I.

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C.E. (H) N&R.R.

P. M. M.
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C.E. (H) NH

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G. S. S.
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DIRECTOR HRS
C.E. (H) METRO (Addl)

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C.E. (H) CKICP

L. S. S.
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C.E. (H) TNRS-P-II.

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Sl. No.	Description of Item	Unit	Basic rates for the year 2019-20 Approved by BOE (excluding GST)	Basic rates Approved for the year 2021-22 (excluding GST)
18	Digitally Printed Fluorescent Coloured Retro Reflectorized Sign Board using Latex Printer			
	<p>Providing and fixing of Retro Reflectorized Sign Boards made out of cube corner micro prismatic grade Fluorescent Coloured sheeting of Type-XI standards of IRC 67-2012 and ASTM D 4956 - 09 specification, Digitally Printed using Latex printing for traffic colour, text and laminated with clear electro-cuttable film and applied to properly prepared sign substrates, fixed over 2mm Aluminium sheet with back supporting frame of 50x50x6mm Mild Steel 'L' angle and supported on a 150NB (Nominal Bore) pipe with 4.50mm thick with an overall height from top of the board to foundation. The sign board should be of 2.10m clear height from the ground level to the bottom of the sign board and 1.10m below ground level. The sign post should be painted as per IRC 67-2012 and firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete of size 450x450x1100mm including cost and conveyance of all materials, equipment, machineries to worksite, including all labour charges for fixing the gantry in position with all leads and lifts, loading charges and necessary for satisfactory completion of the work as directed by the engineer-in-charge etc., complete. The Micro prismatic Fluorescent Coloured sheeting should have minimum co-efficient of Retro-reflection values as per table 6.90 of IRC 67-2012. The retro-reflective sheeting shall be covered under 10 Years warranty issued for field performance and a certified copy of 3 years outdoor exposure report shall be obtained as per IRC 67-2012. The warranty shall be inclusive of digitally printed test/ legends and their bonding to the retro-reflective sheeting (as per MoT&H specification no.801). The Latex printer used for digital printing should have inks of low VOC emissions and have green guard, eco logo certificates as per UL2801 standards of Size - 3.64m x 2.42m</p>			
	Digitally Printed Fluorescent Coloured Retro Reflectorized Sign Board using Latex Printer	Each	1,33,711/-	1,51,502/-

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Ugoorini
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C.E. (H) PROJECT

Santhi
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C.E. (H) P.D.&I.

R. Gellie
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C.E. (H) N&R.R.

R. Gellie
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C.E. (H) NH

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DIRECTOR HRS

C.E. (H) METRO (Addl)

J. S. Srinivas
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